

## **Final Technical Report**

### **Earthquake Hazards Program Assistance Awards**

**USGS Award #: G16AP00059**

**Title of Award: Updating Western US Crustal Motion Map**

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The goal of this project is to provide an update of the Western US Crustal Motion Map (CMM) through rigorous processing of all the available GPS observations in the region. We released a CMM model (WUSCMM1) in 2012 using campaign GPS data observed 1993-2011. This update will incorporate the campaign GPS data not included in that release, particularly the early data observed 1986-1992 and later data observed 2011-2015, to produce a substantially improved solution for the secularly velocities, coseismic and postseismic displacements of significant earthquakes, and station time series 1986-2015. This new CMM product will provide a fundamental dataset for earthquake research and seismic hazard assessments for western US. The works which have been accomplished for this project are the following.

## GPS Data Collection

We have searched the campaign mode GPS (RINEX) data observed from the lower continental western US ( $30\text{-}50^\circ\text{N}$ ,  $110\text{-}125^\circ\text{W}$ ) and archived at the UNAVCO and USGS data centers, and obtained those data not included in the WUSCMM1 release. Particular datasets include:

1. Newly observed campaign GPS data 2011 through 2015. The regions surveyed include (a) across several strands of the San Andreas fault and the Eastern California Shear Zone in California, (b) along the Pacific coast and in the far field of the Cascadia subduction zone, and (c) in the Yellowstone area (Fig. 1). Observations at more than 900 sites are incorporated, most of which had previous occupations, and their secular velocities will be more accurately determined. Additions of the new data reduce uncertainties comparing to the WUSCMM1 result, and recover some of the sites dropped out previously due to large uncertainties of the velocity estimates. About 40 new sites are added, most of which are in the East Transverse Ranges region occupied by the UC Riverside/CSUSB/U. Arizona group.
2. Campaign GPS data of early years. In the WUSCMM1 production we processed the campaign GPS data 1993-2011, and left the pre-1993 data unprocessed. These data include early occupations of ~40 California sites, and the first epoch observations along a number of USGS transects across Nevada, Utah, Oregon, and Idaho. Additions of these data help strengthen the velocity estimates of the sites significantly.
3. Campaign GPS data observed in response to the 2010 Mw7.2 El Mayor-Cucapah earthquake (Fig. 1). This earthquake ruptured a fault south of the California-Mexican border. These data have been analyzed to study the coseismic and postseismic deformation and infer the deformation sources [Wei et al., 2011; Gonzalez-Ortega et al., 2014]. Unified analysis of the data is helpful for detecting subtle deformation signals, particularly at the far field, which may be overlapped with other postseismic deformation signals such as due to the 1992 M7.3 Landers and 1999 M7.1 Hector Mine earthquakes.

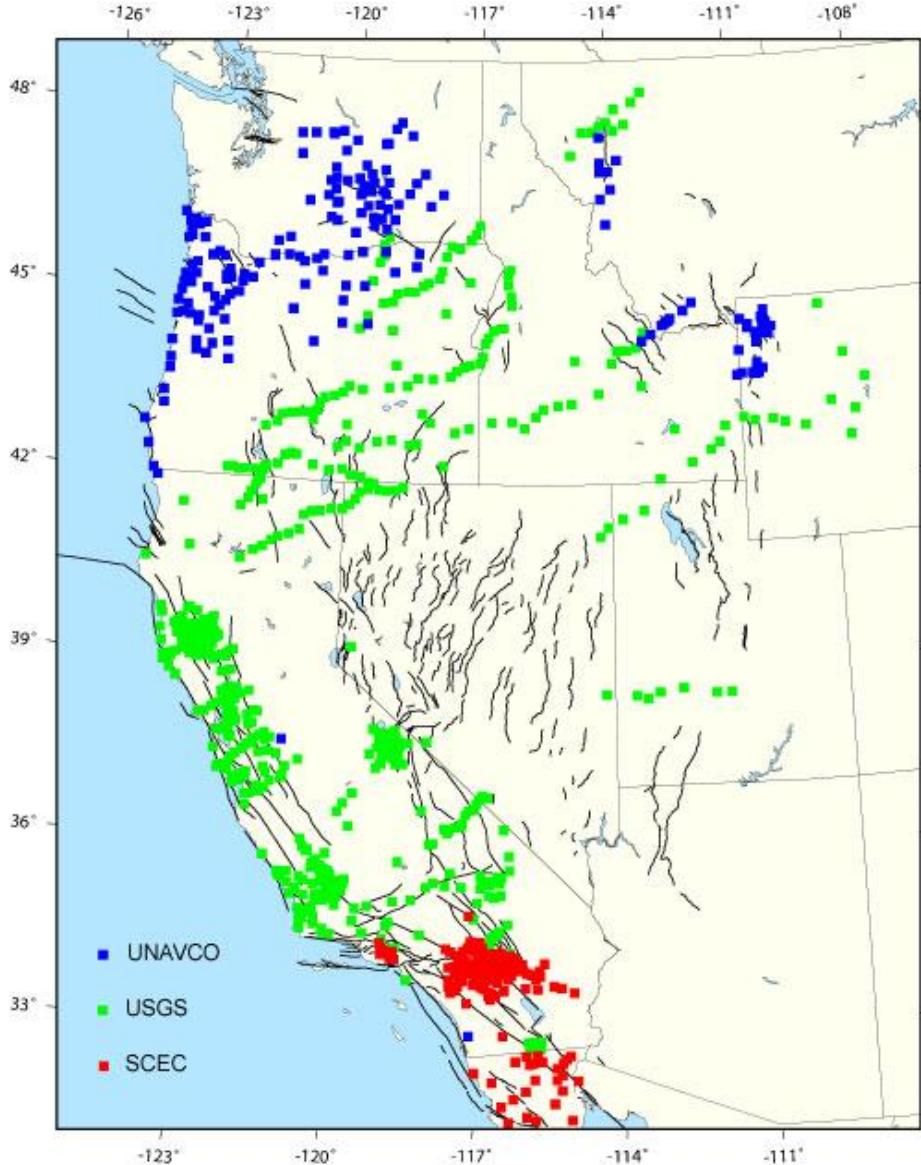


Figure 1. New campaign GPS data collected and processed. The data are from the UNAVCO and SCEC data archives and the SCEC research groups, such as the UC Riverside/U. Arizona/CSUSB consortium and the UCSD/CICESE collaboration group.

## GPS Data Processing

The daily campaign GPS data are processed using the GAMIT software version 10.50 (Herring et al., 2010). In each processing, data from regional and global tracking sites are also included together with the campaign data to establish the reference and assure solution quality. Prior to 1994 there was only a limited number of continuous GPS tracking sites in the world, and data from all of these tracking sites are included in one processing. After 1994, multiple solutions are run for each day, including: (a) a regional solution containing data from the campaign sites and about two-dozen regional continuous sites from western US

(Fig. 2), (b) a regional solution containing data from about 50 continuous tracking sites in north America, and (c) a global solution containing 80-120 IGS tracking sites around the globe (Fig. 3). All the solutions adopt data within 0-24 UTC hour daily boundaries each day, except that for some days the daily boundaries are shifted up to 4 hours forward or backward to accommodate the across day boundary data epochs of some campaign surveys.

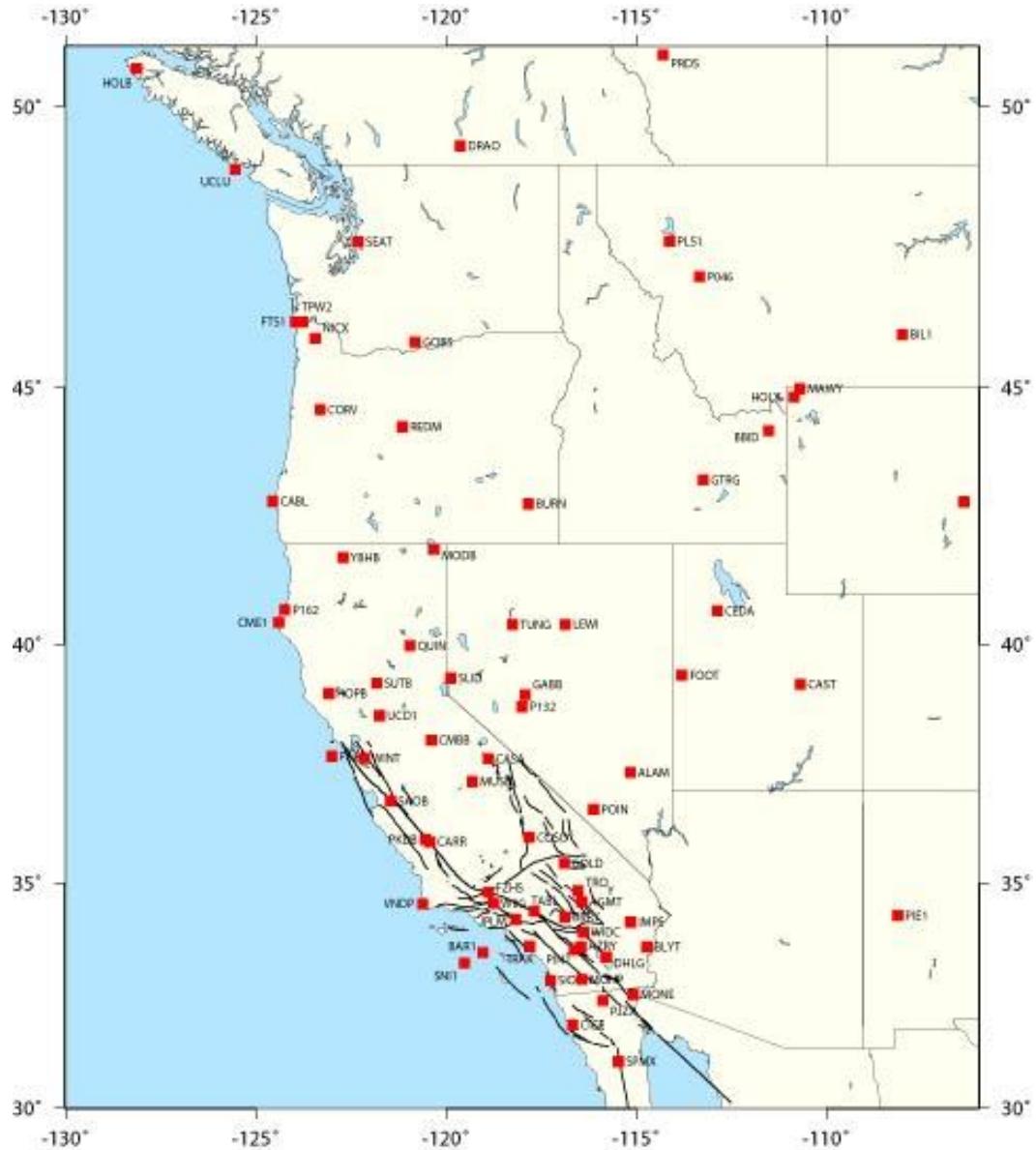


Figure. 2. Western US continuous GPS sites selected as backbone sites to tie the solution with continuous GPS network solutions and establish the North America reference frame. These continuous sites have different observation time spans, and only a fraction of the sites (10-40) is included in each of the daily solutions.

For each solution the pseudo-range and carrier phase data are modeled to solve for station positions, tropospheric delays, satellite orbits, and polar motion/ut1

parameters. Loosely constrained solutions are output, along with their full variance/covariance matrices. The regional, North America, and global daily solutions are then combined using the GLOBK software (Herring et al., 2010), and the station position and polar motion/ut1 parameters of combined daily solutions are output again as loosely constrained solutions with their full variance/covariance matrices.

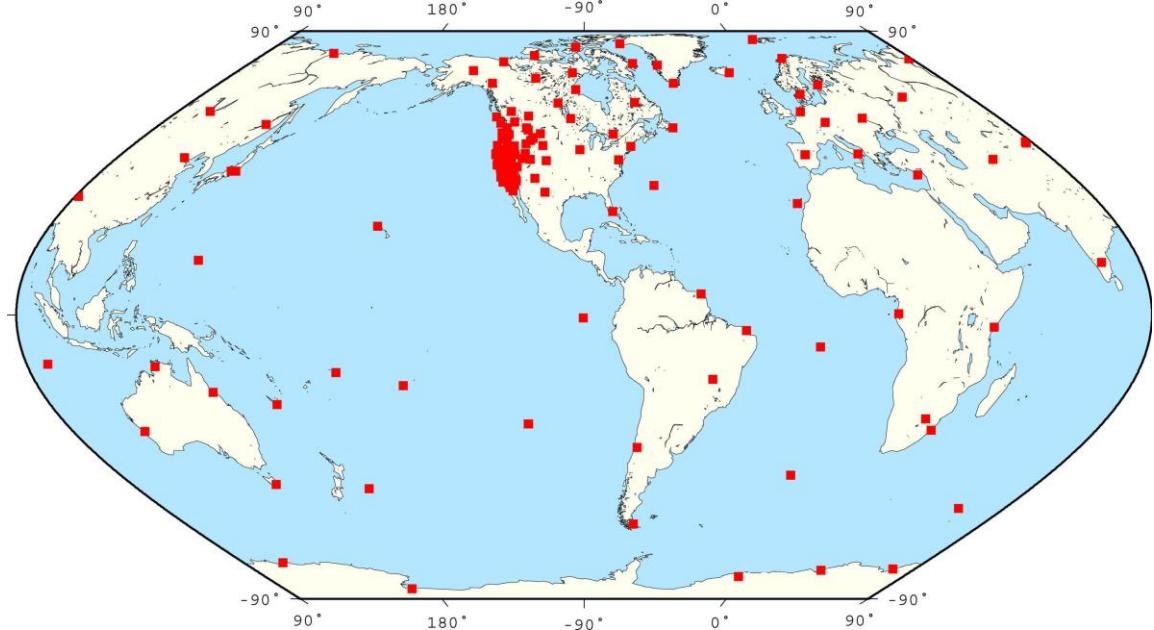


Figure 3. Global tracking sites selected to tie the solutions to the global reference frame. The reference sites have different observation time spans, and only a fraction of the sites (~50 outside of North America) is included in each of the solutions.

### Site Displacement Modeling

We first adjust the loosely constrained daily solutions and tie them to the stable North America reference frame (SNARF) defined by a group of North America tracking sites. The site position time series are produced using the QOCA software (<http://gipsy.jpl.nasa.gov/qoca>). We then inspect outliers in the time series, and investigate the possible causes. Daily solutions are rerun if necessary to fix the problems, and the site position time series are inspected again. Unfixable outliers are removed to clean up the time series data.

To produce the crustal motion model, we aggregate the daily solutions to solve for station initial positions, velocities, coseismic jumps, and postseismic displacements of strong earthquakes through a Karman filtering procedure using the QOCA software. We filter out sites whose observational time spans are less than two years. A site (the  $i$ -th) position time series is defined as the following:

$$D_i(t-t_0) = D_{0i} + V_i(t-t_0) + \sum_k Q_{ik} H(t-t_k) + \sum_k P_{ik} H(t-t_k) \log(1+(t-t_k)/T)$$

where  $t_0$  is the reference time epoch,  $D_{0i}$  the initial position,  $V_i$  the station velocity,

$Q_{ik}$  the coseismic jump during the  $k$ -th earthquake,  $t_k$  the  $k$ -th earthquake occurrence time,  $H$  the Heaviside function,  $P_{ik}$  the postseismic displacement amplitude of the  $k$ -th earthquake, and  $T$  the postseismic relaxation time constant.  $Q_{ik}$  and  $P_{ik}$  are zero if the site is distant from the quake epicenter, non-zero if a priori forward modeling of the coseismic displacement is greater than a threshold.

Some of the campaign sites do not have enough observations to effectively constrain their coseismic and/or postseismic displacements, and a priori information is introduced to provide the constraints. Such a priori constraints are derived from coseismic slip models of previous studies, as listed in Table 1. Coseismic displacements are forward-predicted from each of the fault slip models, and the sites with horizontal displacements exceeding 3 millimeters in amplitude are allowed to have coseismic displacements solved in the model. The model predicted coseismic displacements are used as a priors, and their uncertainties are assumed equal to the amplitudes of the horizontal displacements. The sites whose coseismic displacements exceeding 30 millimeters are also allowed to have their postseismic displacements solved. These postseismic displacements are assumed in the logarithmic functional form, with the decay time equal to 10 days (Shen et al., 2011). The a prioris of the postseismic displacements are assumed one tenth of their model predicted coseismic displacements, with uncertainties equal to the horizontal amplitudes of the aprioris. Miscellaneous adjustments are also made for some sites, whose a priori model predicted displacements do not meet the criteria, but visual inspections of position time series show significant coseismic and/or postseismic displacements. Modeling of their coseismic and/or postseismic displacements is therefore introduced.

Table 1. Strong earthquakes and sources of their fault rupture models.

1992 M6.1 Joshua Tree	Bennett et al. (1995)
1992 M7.3 Landers	Hudnut et al. (1994)
1994 M6.7 Northridge	Hudnut et al. (1996)
1999 M7.1 Hector Mine	Agnew et al. (2002)
2003 M6.5 San Simeon	Rolandone et al. (2006)
2004 M6.0 Parkfield	Johanson et al. (2006)
2010 M7.2 El Mayor-Cucapah	Wei et al. (2011)

To accommodate temporal correlation of the GPS data errors, perturbations are assigned for site position time series in Kalman filtering model, as 1, 1, and 9 mm<sup>2</sup>/yr for the east, north, and up components, respectively. Constraints on 7 network configuration parameters were applied to tie the solutions to the Stable North America Reference Frame (SNARF) reference frame (Blewitt et al., 1995). This was done by minimizing postfit residuals of 7 configuration parameters (translation, rotation, and scale) of a network of reference sites, whose horizontal

velocities and SNARF model predicted velocities are used to compute the 7 configuration parameters and their residuals.

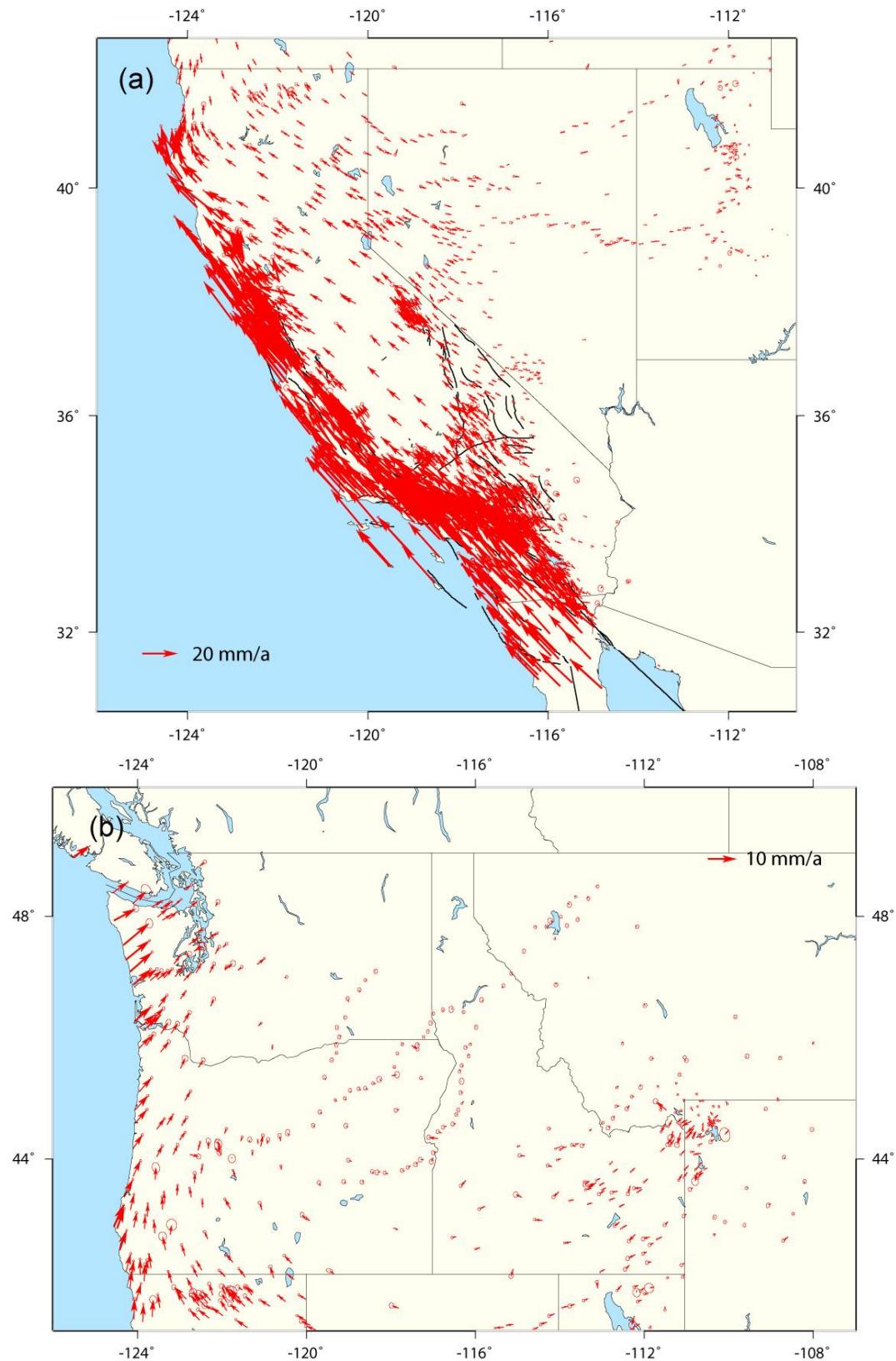


Figure 4. GPS velocity field of western US. (a) and (b) are for SW and NW of the lower North America continental region respectively. Notice the scale difference between the two plots. The error ellipses represent 70% confidence.

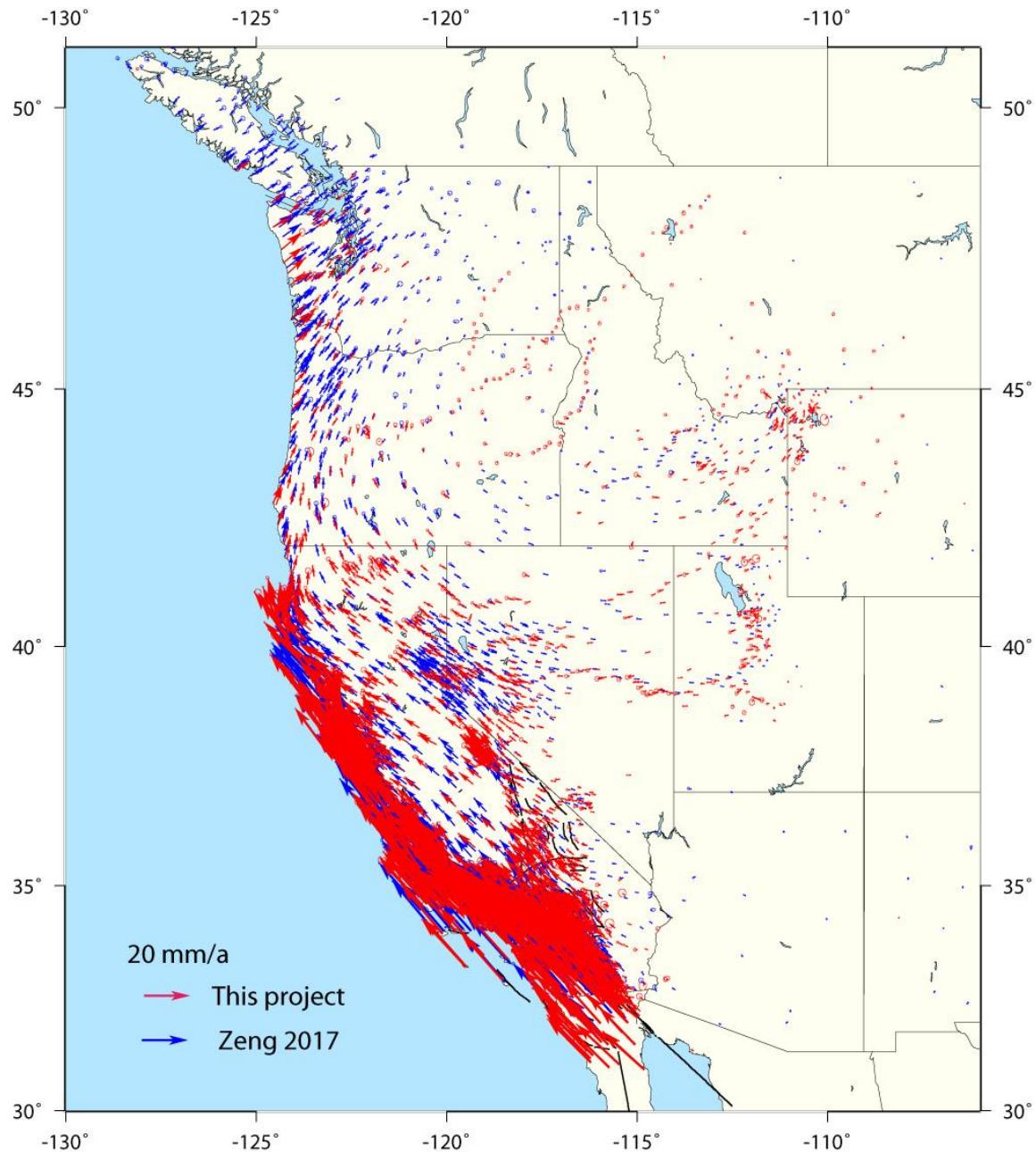


Figure 5. Combined GPS velocity field for western US, with respect to the SNARF reference frame. The red vectors are from this project, and the blue vectors are compiled by Yuehua Zeng.

The Kalman filter solution was run iteratively, each time inspecting the time series, fixing outliers, inserting additional offsets for data with significant jumps in data time series, and adding more coseismic and/or postseismic parameters for

sites showing coseismic and/or postseismic displacements in time series. The iteration stops when all the noticeable problems are fixed.

## Production of Western US Crustal Motion Map Version 2.0 (WUSCMM2)

The final production of the western US crustal motion map version 2.0 contains secular velocities of 2004 (campaign+reference) sites whose horizontal uncertainties are less than 2.5 mm/a, and about 1000 coseismic and 300 postseismic displacements induced by 10 strong earthquakes (1992 m6.1 Joshua Tree, 1992 M7.3 Landers, 1994 M6.7 Northridge, 1999 M7.1 Hector Mine, 2001 M6.8 Nisqually, 2003 M6.6 San Simeon, 2004 M6.0 Parkfield, 2005 M7.2 Offshore Northern California, 2010 M6.5 Offshore Northern California, and 2010 M7.2 El Mayor-Cucapah), occurred during the 1986-2015 time period. Fig. 4 shows the horizontal velocity field referenced to the North America plate, and the data are listed in Table S1.

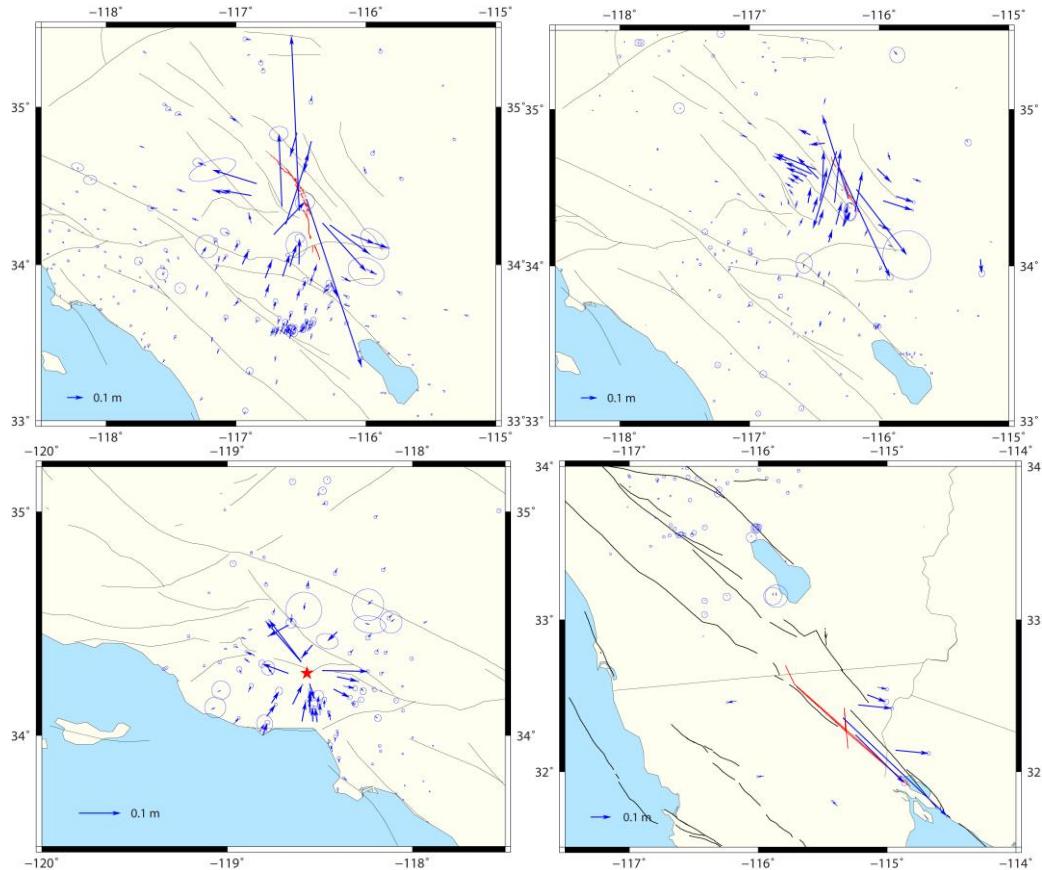


Figure 6. Coseismic displacement estimates. Upper left: 1992 Landers, upper right: 1999 Hector Mine, lower left: 1994 Northridge, lower right: 2010 El Mayor-Cucapah earthquakes, respectively. Red curves/stars show fault surface rupture traces/epicenter locations.

Our solution is primarily for the displacements of the campaign GPS sites, plus a limited number of continuous sites included to stabilize the solution and tie the

solution to the SNARF reference. A complete CMM model should include velocities of all the continuous sites in western US. Such a solution is compiled by Yuehua Zeng, collaborator of this project. He collected the campaign GPS velocity solutions from Rob McCaffrey for the Pacific Northwest region, the continuous GPS velocity solutions from the University of Nevada, Reno group (<http://geodesy.unr.edu/>) and the MEASUREs project (<https://podaac.jpl.nasa.gov/MEASUREs>), and the solution of this project, rotated them into a common reference frame, removed the redundant sites and outliers, and produced a unified velocity solution. The velocity field is shown in Fig. 5. The additional sites are primarily from the PBO continuous network, the Nevada network run by the UNR group, and some of Canadian and Pacific Northwest campaign sites surveyed by researchers from the Pacific Geophysical Research Center of Canada, University of Central Washington, and University of Oregon. We requested all the Pacific Northwest campaign data, but unfortunately some of the data arrived too late (near the end of the project period) to be processed and included in this update.

The coseismic and postseismic displacements of four large earthquakes are also

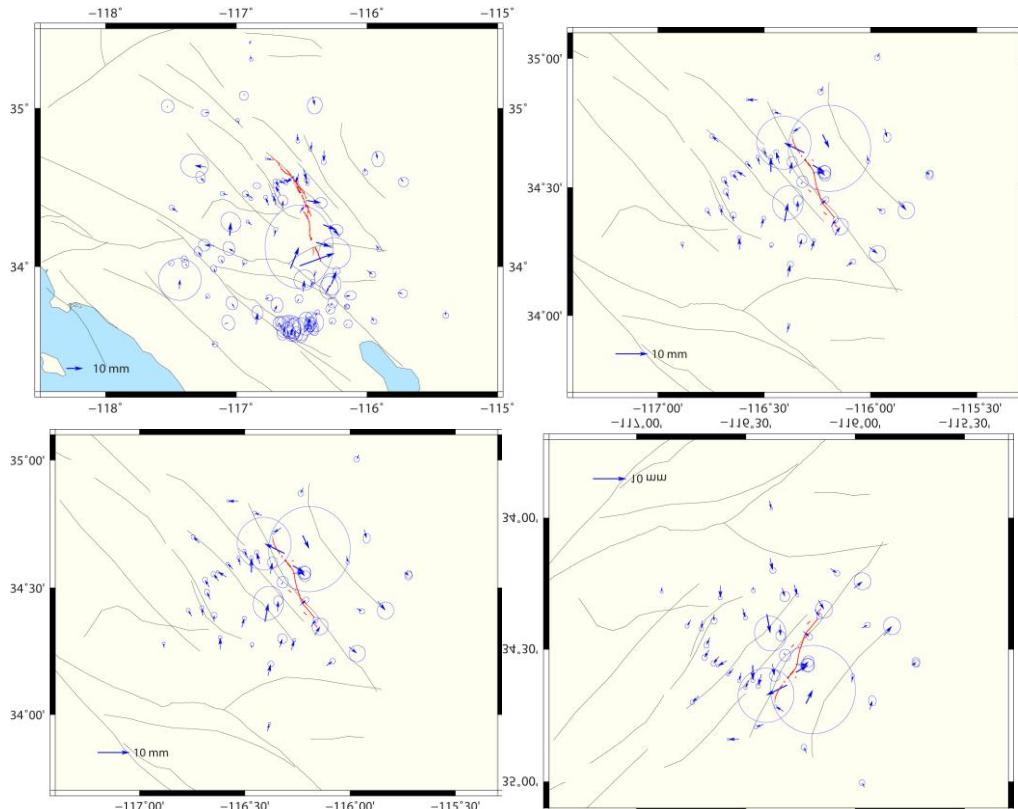


Figure 7. Postseismic displacement estimates. Upper left: 1992 Landers, upper right: 1999 Hector Mine, lower left: 1994 Northridge, lower right: 2010 El Mayor-Cucapah earthquakes, respectively. The vectors show amplitudes of horizontal components of logarithmic decay functions, with the decay time as of 10 days.

presented in Figs. 6 and 7 respectively. Their error ellipses represent 70% confidence. The data are listed in supplement materials.

Using the model parameters obtained above, we compute the postfit residual time series. A group of sites with long occupation history are chosen to provide reference for the station time series. The crustal motion model parameters (velocities and coseismic/postseismic displacements of the sites) are used to forward predict site positions at the data epochs, and 7 configuration parameters (translation, rotation, and scale) of the site residual positions are computed and minimized to provide the reference for the daily solutions. Advantage of producing the time series in this way is that it helps stabilize the network reference, which is important for the data of early years when the reference constraints are relatively weak.

## Supplemental Materials

Numerical solutions are provided in the supplemental materials, which are archived online at <http://scec.ess.ucla.edu/~zshen/wuscm/>. The velocity estimates are also attached to this report. The supplement tables are:

Table S1. UCLA GPS velocity estimates.

Table S2. Additional GPS velocity data compiled by Yuehua Zeng.

Table S3. Earthquake and offset epochs.

Table S4. Coseismic and offset jump estimates.

Table S5. Postseismic logarithmic displacement amplitude estimates.

Table S6. GPS site position residual time series. To restore the original time series, locate the velocity (V), coseismic and offset jump (Te, D), and postseismic logarithmic displacement (Te, P, Tau) parameters from Tables S1-S6, and add the modeling term  $V*t+D*H(t-Te)+P*\log(1+(t-Te)/Tau)$  back to the residual time series.

## Fault Network Modeling of Crustal Deformation in California

The PI has collaborated with Yuehua Zeng of USGS Golden office, and developed a fault network model of crustal deformation (Zeng and Shen, 2014), and applied the method to kinematic deformation field in western US (Zeng and Shen, 2017). In the method surface deformation is calculated assuming each fault segment slipping beneath a locking depth. Each fault segment connects to its adjacent elements with slip vector continuity imposed at fault nodes or intersections; the degree of the constraints determines whether deformation is block-like. We apply this model to invert GPS observations for slip rates on major faults in California with geological rate constraints. The model consists of six blocks with boundaries aligned along major faults in California and the Cascadia subduction zone, which are represented as buried dislocations in the Earth. Faults distributed within blocks have their geometrical structure and locking depths specified by the Uniform California Earthquake Rupture Forecast, version

3 (UCERF3) and the 2008 U.S. Geological Survey National Seismic Hazard Map Project model. Faults slip beneath a predefined locking depth, except for a few segments where shallow creep is allowed. The slip rates are estimated using a least-squares inversion. The model resolution analysis shows that the resulting model is influenced heavily by geologic input, which fits the UCERF3 geologic bounds on California B faults and  $\pm$ one-half of the geologic slip rates for most other WUS faults. The modeled slip rates for the WUS faults are consistent with the observed GPS velocity field. Our fit to these velocities is measured in terms of a normalized chi-square, which is 6.5. This updated model fits the data better than most other geodetic-based inversion models. Major discrepancies between well-resolved GPS inversion rates and geologic-consensus rates occur along some of the northern California A faults, the Mojave to San Bernardino segments of the San Andreas fault, the western Garlock fault, the southern segment of the Wasatch fault, and other faults. Off-fault strain-rate distributions are consistent with regional tectonics, with a total off-fault moment rate of  $7.2 \times 10^{18}$  and  $8.5 \times 10^{18}$  N·m/a for California and the WUS outside California, respectively.

#### Publications resulted from this project

Zeng Y, and Z.-K. Shen, A fault-based model for crustal deformation in the western United States based on a combined inversion of GPS and geologic inputs, Bull. Seismol. Soc. Am., 107(6): 2597-2612, 2017.

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Table S1. UCLA GPS Velocity Estimates.

Site	Longitude East	Latitude North	V_e mm/a	V_n mm/a	dV_e mm/a	dV_n mm/a	Cen
BRMU	-64.6963	32.3704	0.28	0.58	0.13	0.12	0.009
STJO	-52.6777	47.5952	0.55	0.49	0.13	0.13	0.004
WILL	-122.1678	52.2369	-0.78	-0.33	0.13	0.14	-0.001
YELL	-114.4807	62.4809	-1.33	-1.35	0.13	0.14	0.004
ALGO	-78.0714	45.9558	0.46	-0.99	0.14	0.14	0.001
KELY	-50.9448	66.9874	0.63	0.18	0.14	0.14	-0.008
AMC2	-104.5246	38.8031	-0.58	0.59	0.14	0.14	-0.009
FLIN	-101.9780	54.7256	-0.69	-0.99	0.15	0.15	0.002
RESO	-94.8937	74.6908	-0.52	-0.40	0.15	0.15	0.009

DRAO	-119.6250	49.3226	0.81	0.33	0.15	0.16	-0.040
UCLU	-125.5416	48.9256	10.05	6.75	0.16	0.17	-0.051
QUIN	-120.9444	39.9746	-9.27	5.66	0.16	0.17	-0.078
CHUR	-94.0887	58.7591	-0.47	-0.00	0.16	0.17	0.007
NYAL	-348.1349	78.9296	12.25	-8.49	0.17	0.18	0.078
WHIT	-135.2221	60.7505	-0.04	0.78	0.17	0.18	-0.021
PIE1	-108.1189	34.3015	-0.44	0.42	0.17	0.16	-0.058
GODE	-76.8268	39.0217	-0.04	0.22	0.17	0.16	0.019
VNDP	-120.6164	34.5563	-31.20	34.41	0.17	0.17	-0.093
PRDS	-114.2935	50.8714	0.25	-2.00	0.17	0.18	-0.016
CEDA	-112.8605	40.6807	-2.87	-0.47	0.17	0.17	-0.047
FARB	-123.0008	37.6972	-27.16	36.87	0.17	0.17	-0.084
DUBO	-95.8662	50.2588	-0.64	-0.89	0.17	0.17	-0.001
CABL	-124.5633	42.8361	5.99	12.36	0.17	0.18	-0.067
GOBS	-120.8147	45.8388	0.18	2.56	0.17	0.18	-0.047
SCH2	-66.8326	54.8321	0.76	1.73	0.17	0.17	0.005
JPLM	-118.1732	34.2048	-25.91	23.06	0.17	0.17	-0.083
CAS1	-249.4803	-66.2834	29.58	-20.46	0.17	0.18	0.002
REDM	-121.1479	44.2598	-0.28	2.44	0.17	0.18	-0.052
CMBB	-120.3860	38.0342	-9.84	7.69	0.17	0.17	-0.076
GOLD	-116.8893	35.4252	-5.19	6.47	0.17	0.17	-0.075
CAST	-110.6773	39.1910	-0.52	0.07	0.17	0.17	-0.045
DAV1	-282.0274	-68.5773	16.84	-30.28	0.17	0.18	-0.012
MCM4	-193.3307	-77.8383	32.67	6.04	0.17	0.19	-0.024
YBHB	-122.7107	41.7317	-2.90	6.20	0.17	0.18	-0.064
UCD1	-121.7512	38.5362	-9.70	8.01	0.17	0.18	-0.073
COSO	-117.8089	35.9823	-4.14	13.28	0.17	0.17	-0.072
FOOT	-113.8054	39.3694	-3.10	-0.18	0.17	0.17	-0.051
SLID	-119.8843	39.3143	-8.82	5.42	0.18	0.18	-0.066
TRAK	-117.8034	33.6179	-26.75	27.24	0.18	0.17	-0.079
KERG	-289.7445	-49.3515	21.48	-31.35	0.18	0.19	0.031
ONSA	-348.0745	57.3953	19.41	-11.11	0.18	0.18	0.163
BURN	-117.8435	42.7795	-2.08	0.88	0.18	0.18	-0.048
MDO1	-104.0150	30.6805	-0.40	-0.94	0.18	0.17	-0.049
HOFN	-15.1979	64.2673	23.35	-6.76	0.18	0.19	0.055
FAIR	-147.4992	64.9780	-0.93	-4.92	0.18	0.19	-0.029
SUTB	-121.8206	39.2058	-10.30	6.50	0.18	0.18	-0.067
SAOB	-121.4472	36.7653	-27.85	34.06	0.18	0.18	-0.078
LEWI	-116.8619	40.4035	-2.39	-0.98	0.18	0.18	-0.053
SYOG	-320.4163	-69.0070	-1.25	-29.78	0.18	0.19	0.020
MUSB	-119.3093	37.1699	-9.94	8.28	0.18	0.18	-0.070
SNI1	-119.5244	33.2479	-31.43	34.06	0.18	0.18	-0.081
TPW2	-123.7684	46.2074	7.58	6.90	0.18	0.19	-0.046
FZHS	-118.8934	34.8002	-19.71	18.24	0.18	0.18	-0.073
HOB2	-212.5613	-42.8047	37.71	60.42	0.18	0.19	-0.138

HOPB	-123. 0747	38. 9952	-18. 08	20. 87	0. 18	0. 18	-0. 068
GTRG	-113. 2412	43. 2441	-2. 54	-0. 79	0. 18	0. 18	-0. 033
MAWY	-110. 6893	44. 9734	-0. 01	0. 31	0. 18	0. 19	-0. 024
MONP	-116. 4223	32. 8919	-27. 16	26. 17	0. 18	0. 18	-0. 068
NLIB	-91. 5749	41. 7716	0. 03	1. 00	0. 18	0. 18	-0. 009
MADR	-4. 2497	40. 4292	23. 58	-10. 45	0. 18	0. 19	0. 180
INVK	-133. 5270	68. 3062	-1. 19	-1. 59	0. 18	0. 20	0. 012
KOSG	-354. 1904	52. 1784	23. 34	-9. 38	0. 18	0. 19	0. 155
MODB	-120. 3028	41. 9023	-3. 99	3. 16	0. 19	0. 19	-0. 051
HOLM	-117. 7612	70. 7363	-1. 78	-0. 68	0. 19	0. 19	0. 032
QAQ1	-46. 0478	60. 7153	0. 31	0. 04	0. 19	0. 20	0. 006
SEAT	-122. 3095	47. 6540	3. 63	2. 46	0. 19	0. 20	-0. 036
VILL	-3. 9520	40. 4436	23. 87	-10. 60	0. 19	0. 19	0. 174
MAS1	-15. 6333	27. 7637	20. 91	-8. 28	0. 19	0. 19	0. 192
CORV	-123. 3046	44. 5855	3. 61	6. 05	0. 19	0. 20	-0. 046
THU3	-68. 8250	76. 5370	-1. 35	0. 91	0. 19	0. 19	-0. 026
MATE	-343. 2955	40. 6491	23. 67	-9. 32	0. 19	0. 19	0. 202
KOKB	-159. 6649	22. 1263	-55. 22	49. 60	0. 19	0. 19	-0. 209
BLYT	-114. 7149	33. 6104	-2. 08	0. 57	0. 19	0. 19	-0. 057
BAKE	-96. 0023	64. 3178	0. 12	0. 04	0. 20	0. 20	0. 011
VESL	-2. 8418	-71. 6738	-17. 30	-15. 51	0. 20	0. 21	0. 104
BAR1	-119. 0297	33. 4805	-30. 39	32. 83	0. 20	0. 19	-0. 065
BBID	-111. 5261	44. 1850	-1. 99	-1. 78	0. 20	0. 20	-0. 031
YARR	-244. 6530	-29. 0466	58. 23	47. 12	0. 20	0. 20	-0. 070
DARW	-228. 8673	-12. 8437	50. 22	55. 69	0. 20	0. 19	-0. 153
PKDB	-120. 5416	35. 9452	-22. 51	29. 98	0. 20	0. 20	-0. 063
QIKI	-64. 0337	67. 5593	1. 41	1. 44	0. 20	0. 20	-0. 014
KOUR	-52. 8060	5. 2522	-3. 87	-0. 43	0. 20	0. 17	0. 145
COCO	-263. 1660	-12. 1883	55. 41	35. 73	0. 20	0. 19	-0. 024
TABL	-117. 6783	34. 3818	-18. 22	18. 27	0. 20	0. 20	-0. 058
DHLG	-115. 7880	33. 3898	-10. 76	8. 55	0. 20	0. 20	-0. 050
BBRY	-116. 8842	34. 2643	-11. 43	13. 84	0. 21	0. 20	-0. 046
GLSV	-329. 5033	50. 3642	19. 74	-14. 76	0. 21	0. 20	0. 165
TIXI	-231. 1336	71. 6345	-0. 27	-6. 03	0. 21	0. 19	-0. 108
LAST	-117. 3092	33. 8374	-22. 70	23. 89	0. 21	0. 21	-0. 066
P046	-113. 3317	47. 0296	0. 17	-0. 80	0. 21	0. 21	-0. 016
AZRY	-116. 6297	33. 5401	-20. 03	20. 34	0. 21	0. 20	-0. 049
P162	-124. 2370	40. 6911	2. 25	20. 30	0. 21	0. 21	-0. 050
CHAT	-176. 5658	-43. 9558	-24. 92	51. 46	0. 21	0. 21	-0. 181
BRIN	-117. 1392	34. 0138	-18. 00	19. 49	0. 21	0. 22	-0. 053
CASP	-106. 3841	42. 8192	-1. 01	0. 31	0. 21	0. 21	-0. 016
RBAY	-327. 9216	-28. 7955	16. 29	-16. 99	0. 21	0. 22	0. 152
P132	-118. 0049	38. 7288	-4. 23	2. 13	0. 21	0. 21	-0. 040
IMPS	-115. 1451	34. 1576	-2. 71	0. 73	0. 21	0. 21	-0. 045
NICO	-326. 6036	35. 1410	16. 50	-13. 43	0. 21	0. 20	0. 181

TROM	-341.0617	69.6627	14.61	-8.93	0.22	0.22	0.088
GUAM	-215.1316	13.5893	-4.09	7.23	0.22	0.20	-0.195
POIN	-116.1198	36.5796	-2.69	0.21	0.22	0.22	-0.043
BRAZ	-47.8779	-15.9475	-13.72	-0.61	0.22	0.18	0.180
ARTU	-301.4395	56.4298	14.81	-15.06	0.22	0.20	0.117
GABB	-117.9164	38.9703	-3.81	1.02	0.22	0.22	-0.039
WIDC	-116.3918	33.9348	-10.25	12.46	0.22	0.22	-0.042
ALAM	-115.1585	37.3580	-3.12	-0.09	0.22	0.22	-0.037
NRIL	-271.6402	69.3618	4.62	-11.61	0.22	0.19	0.018
GOUG	-9.8807	-40.3488	7.37	-8.50	0.22	0.21	0.191
IISC	-282.4296	13.0212	43.05	11.15	0.22	0.19	0.062
AGMT	-116.4294	34.5943	-6.50	6.02	0.22	0.22	-0.043
KIT3	-293.1146	39.1348	19.50	-16.73	0.22	0.19	0.108
NKLG	-350.3279	0.3539	20.59	-13.05	0.22	0.21	0.213
IRKT	-255.6838	52.2190	11.93	-13.59	0.22	0.19	-0.049
THTI	-149.6064	-17.5771	-58.35	52.33	0.22	0.20	-0.215
0653	-118.8883	34.2850	-28.05	28.69	0.23	0.23	-0.021
GLPS	-90.3037	-0.7430	51.84	13.62	0.23	0.20	-0.016
BJFS	-244.1075	39.6086	22.71	-15.47	0.23	0.20	-0.094
LHAZ	-268.8960	29.6573	41.28	-0.21	0.23	0.20	0.004
TSKB	-219.9125	36.1057	-6.32	-4.31	0.24	0.22	-0.143
SPMX	-115.4659	31.0450	-31.24	29.39	0.24	0.23	-0.046
OVRA	-118.2938	37.2326	-8.02	5.73	0.24	0.23	-0.048
OVRO	-118.2836	37.2320	-7.24	5.46	0.24	0.23	-0.051
HP11	-122.4522	39.0280	-10.35	7.39	0.25	0.24	-0.040
CIC1	-116.6658	31.8707	-29.23	29.91	0.25	0.24	-0.036
TWR2	-120.0181	35.4877	-19.86	21.86	0.25	0.25	-0.044
SANT	-70.6686	-33.1503	4.99	15.89	0.25	0.20	0.072
UKIA	-123.2041	39.1326	-19.20	21.76	0.25	0.25	-0.041
LAMO	-120.2568	34.7985	-29.64	32.43	0.25	0.25	-0.043
NAMA	-317.9554	19.2114	32.35	-3.50	0.25	0.23	0.130
0654	-118.8293	34.2891	-27.82	28.43	0.25	0.26	-0.032
ISPA	-109.3444	-27.1250	62.08	7.30	0.25	0.21	-0.087
FTS1	-123.9561	46.2049	9.04	7.64	0.25	0.26	-0.026
0102	-123.0338	39.1880	-16.49	14.90	0.25	0.26	-0.039
0301	-122.6701	39.6671	-10.42	6.11	0.25	0.26	-0.027
TESS	-120.6976	35.3858	-26.82	34.07	0.25	0.26	-0.040
GUAO	-272.8227	43.4711	21.65	-9.43	0.25	0.22	0.017
0682	-118.8864	34.2145	-28.77	27.89	0.25	0.26	0.002
0661	-118.6005	34.1379	-28.10	27.75	0.26	0.27	0.035
1009	-121.2845	35.6646	-28.89	36.81	0.26	0.25	-0.036
NIST	-105.2626	39.9951	-0.01	-0.52	0.26	0.26	-0.004
URUM	-272.3993	43.8079	20.96	-9.06	0.26	0.22	0.014
SMX1	-120.4576	34.8993	-29.62	32.72	0.26	0.27	-0.005
RKCR	-118.7363	37.4562	-7.64	6.89	0.26	0.27	-0.028

ALMO	-120.4531	35.5518	-25.21	32.28	0.26	0.26	-0.037
SLDE	-123.0173	39.4262	-16.03	12.47	0.26	0.26	-0.042
CORD	-122.5953	38.1860	-17.70	23.25	0.26	0.26	-0.043
BRU2	-121.7728	36.5898	-28.44	34.92	0.26	0.26	-0.042
WATH	-120.2733	35.7083	-20.99	25.71	0.26	0.26	-0.045
B428	-115.1100	41.0994	-3.77	-0.36	0.26	0.27	-0.038
CME1	-124.3963	40.4418	-7.38	30.18	0.26	0.27	-0.034
0412	-122.4068	38.4411	-12.62	14.69	0.26	0.28	-0.049
M903	-119.0553	37.8564	-10.61	10.59	0.26	0.27	-0.035
TROY	-116.5305	34.8386	-6.64	5.21	0.26	0.27	-0.040
COBB	-112.9201	43.5082	-1.99	-1.32	0.26	0.26	-0.018
AWHD	-117.2732	34.1835	-16.64	16.66	0.26	0.28	-0.005
WHMT	-117.0145	34.3510	-12.28	12.73	0.26	0.26	-0.024
TRUE	-122.2163	37.3123	-24.48	29.82	0.27	0.27	-0.042
IZAA	-120.0691	34.6050	-30.46	31.55	0.27	0.28	-0.020
LP1X	-121.8446	37.1096	-21.28	25.57	0.27	0.27	-0.040
WINN	-118.6329	37.5445	-5.68	6.58	0.27	0.27	-0.041
T3R2	-122.5985	37.9232	-21.32	26.11	0.27	0.27	-0.047
PAWT	-122.1672	37.3245	-22.80	28.56	0.27	0.27	-0.041
RETT	-119.0605	37.6560	-10.47	8.42	0.27	0.27	-0.040
WRPK	-116.4072	34.0551	-7.95	10.09	0.27	0.27	-0.023
HALM	-122.3595	37.2284	-27.11	34.08	0.27	0.27	-0.043
PVER	-118.4036	33.7438	-27.84	30.03	0.27	0.23	-0.074
SCHL	-123.8820	41.1534	0.49	10.31	0.27	0.28	-0.040
0105	-123.8352	39.7769	-26.44	25.93	0.27	0.28	-0.040
7HLI	-120.2997	34.9599	-28.94	31.73	0.27	0.27	-0.023
PRH2	-122.8687	38.0797	-23.85	31.73	0.27	0.28	-0.032
NAVY	-122.3662	37.8100	-19.11	24.14	0.27	0.28	-0.056
SKAZ	-119.0848	37.7719	-10.45	9.03	0.27	0.28	-0.044
KHAJ	-224.9538	48.5215	12.89	-10.21	0.27	0.26	-0.092
X959	-123.2383	39.4547	-17.91	15.13	0.28	0.29	-0.032
SHER	-121.8699	37.5413	-14.39	17.37	0.28	0.28	-0.042
SOVF	-120.5254	34.6086	-30.72	33.70	0.28	0.27	-0.041
BENC	-120.3513	35.7456	-19.92	26.37	0.28	0.28	-0.037
9618	-122.8830	38.3132	-19.36	27.39	0.28	0.29	-0.059
ALLI	-121.8713	37.4989	-15.08	15.61	0.28	0.28	-0.046
MADC	-120.0671	35.0756	-27.04	29.50	0.28	0.25	-0.036
NEGR	-112.9460	42.0777	-2.53	-1.35	0.28	0.28	0.013
CART	-119.0445	37.9169	-9.32	9.88	0.28	0.29	-0.033
PRH3	-123.0149	37.9964	-26.50	35.63	0.28	0.28	-0.044
NICC	-122.7365	38.0927	-20.44	27.07	0.28	0.29	-0.045
G042	-120.3502	35.8307	-15.43	20.29	0.28	0.28	-0.032
MALI	-319.8056	-2.9959	25.91	-16.54	0.28	0.27	0.110
0413	-123.4008	38.6533	-24.27	33.47	0.28	0.30	-0.094
9627	-122.2729	38.5086	-11.97	13.65	0.28	0.29	-0.067

TRAL	-121. 9942	37. 0586	-25. 83	32. 56	0. 28	0. 28	-0. 034
LUNE	-117. 1281	34. 3440	-13. 04	13. 77	0. 28	0. 28	-0. 025
0104	-123. 2010	39. 7954	-13. 12	8. 03	0. 28	0. 29	-0. 036
SAGE	-120. 0388	39. 7909	-8. 13	4. 34	0. 28	0. 28	-0. 031
BM1R	-122. 1534	37. 2902	-23. 24	28. 89	0. 28	0. 28	-0. 048
MONT	-120. 7076	35. 9489	-25. 23	32. 14	0. 28	0. 29	-0. 035
SBPC	-120. 6406	35. 2359	-28. 58	32. 77	0. 28	0. 30	0. 029
BRUC	-121. 9610	37. 0731	-24. 50	31. 39	0. 28	0. 28	-0. 031
LG07	-119. 7604	35. 0363	-25. 72	24. 30	0. 28	0. 29	-0. 032
GZ75	-119. 1151	37. 8475	-10. 43	9. 54	0. 28	0. 30	-0. 035
G069	-117. 1388	33. 9472	-18. 69	20. 78	0. 28	0. 30	-0. 018
MOCH	-121. 5559	37. 4773	-11. 93	8. 59	0. 28	0. 29	-0. 039
TIRZ	-120. 2667	34. 6858	-29. 57	32. 77	0. 28	0. 27	-0. 032
WMTN	-118. 2363	37. 5722	-4. 94	4. 07	0. 28	0. 28	-0. 028
C300	-117. 8839	38. 7599	-3. 69	0. 90	0. 28	0. 28	-0. 033
GRSH	-123. 9778	40. 3064	-11. 54	20. 46	0. 29	0. 29	-0. 044
K204	-118. 8940	37. 8752	-6. 38	11. 31	0. 29	0. 30	-0. 029
SANO	-117. 5131	34. 0182	-23. 02	22. 79	0. 29	0. 28	-0. 017
MEEK	-116. 6174	34. 2579	-8. 29	14. 79	0. 29	0. 28	-0. 036
ORLA	-122. 1923	39. 7685	-10. 40	6. 19	0. 29	0. 30	-0. 028
0403	-121. 6951	37. 1889	-21. 06	17. 52	0. 29	0. 29	-0. 043
HIGH	-117. 1693	34. 1339	-16. 04	15. 63	0. 29	0. 29	-0. 038
SSPR	-111. 5841	42. 6535	-2. 96	-1. 37	0. 29	0. 30	0. 031
FORT	-38. 4256	-3. 8774	-8. 40	-6. 32	0. 29	0. 27	0. 106
PIGE	-122. 3945	37. 1830	-28. 12	34. 60	0. 29	0. 29	-0. 053
EAUN	-122. 1950	37. 1469	-26. 50	32. 59	0. 29	0. 29	-0. 049
BRIG	-121. 9961	37. 1852	-22. 00	27. 36	0. 29	0. 29	-0. 027
GILM	-113. 2508	44. 5039	-0. 90	-0. 59	0. 29	0. 29	0. 042
1395	-122. 8126	38. 0873	-22. 59	28. 78	0. 29	0. 31	-0. 056
HAGG	-122. 2592	38. 3239	-12. 14	13. 65	0. 29	0. 30	-0. 044
SARE	-121. 8100	37. 5940	-12. 12	12. 33	0. 29	0. 30	-0. 040
SOLI	-119. 3427	34. 2983	-29. 36	28. 38	0. 29	0. 26	0. 011
DIVD	-116. 9692	34. 0780	-11. 52	19. 84	0. 29	0. 29	-0. 003
A586	-116. 8361	33. 4841	-23. 07	25. 36	0. 29	0. 29	-0. 047
SWEE	-122. 4581	37. 6094	-23. 58	30. 05	0. 29	0. 29	-0. 048
CLIF	-122. 0516	36. 9498	-27. 66	33. 26	0. 29	0. 30	-0. 044
ELSE	-122. 0228	37. 2170	-21. 75	27. 47	0. 29	0. 29	-0. 031
HAML	-121. 6430	37. 3417	-14. 64	10. 53	0. 29	0. 30	-0. 049
MITH	-120. 5960	36. 0789	-8. 76	12. 72	0. 29	0. 29	-0. 037
B300	-119. 2441	38. 9881	-6. 54	5. 05	0. 29	0. 30	-0. 034
WGRD	-118. 1520	37. 2707	-6. 80	3. 98	0. 29	0. 29	-0. 025
0109	-124. 1174	40. 9750	2. 72	15. 14	0. 29	0. 31	-0. 058
HOLA	-121. 4018	36. 8933	-14. 17	11. 48	0. 29	0. 30	-0. 019
TWI1	-119. 4790	33. 2318	-30. 63	34. 68	0. 29	0. 26	-0. 087
MABL	-118. 3084	38. 4564	-4. 96	2. 98	0. 29	0. 28	-0. 031

PT65	-117.0679	34.4538	-11.91	12.54	0.29	0.29	-0.005
DICK	-113.9267	44.1787	-1.72	-0.85	0.29	0.31	-0.031
COOS	-124.2660	40.2568	-21.62	30.38	0.29	0.29	-0.041
9623	-123.1494	38.4635	-21.49	31.65	0.29	0.32	-0.084
CBAR	-120.2651	35.7563	-17.54	20.75	0.29	0.30	-0.034
ML72	-118.9585	37.8963	-8.31	10.55	0.29	0.31	-0.031
ANZR	-116.6618	33.5560	-20.11	22.56	0.29	0.31	-0.030
GRAF	-113.0557	43.6646	-2.20	-1.07	0.29	0.31	-0.021
JD84	-120.5404	35.9566	-26.02	31.71	0.29	0.30	-0.049
0504	-119.8377	35.0031	-26.28	27.04	0.29	0.30	-0.037
GOUÐ	-119.7663	35.4136	-15.02	16.09	0.29	0.29	-0.034
HORU	-118.8091	37.9791	-7.10	9.43	0.29	0.28	-0.036
G025	-117.2167	34.0184	-20.03	20.08	0.29	0.32	-0.034
9626	-122.5293	38.3914	-13.85	17.84	0.29	0.32	-0.065
AD00	-122.5275	38.2364	-15.80	21.05	0.29	0.31	-0.049
0226	-119.9944	40.2450	-7.08	4.34	0.29	0.30	-0.023
CTR1	-119.2323	37.5184	-10.47	8.25	0.29	0.29	-0.028
CLSA	-117.3804	34.0036	-21.72	22.67	0.29	0.31	-0.015
0410	-122.2546	38.0302	-16.00	16.15	0.30	0.30	-0.070
VAC3	-122.1029	38.3979	-11.16	7.84	0.30	0.31	-0.036
SJOS	-121.9768	37.2057	-21.18	26.03	0.30	0.30	-0.024
GREG	-121.9237	36.9823	-26.73	31.33	0.30	0.31	-0.049
CORR	-121.8325	37.0116	-24.86	30.52	0.30	0.30	-0.026
HATC	-121.4713	40.8176	-6.69	4.38	0.30	0.30	-0.026
FV30	-121.3572	36.9258	-12.07	9.07	0.30	0.30	-0.018
AECU	-112.9500	43.5952	-2.48	-1.43	0.30	0.30	0.006
IAQ2	-123.8826	40.6690	-3.03	13.34	0.30	0.31	-0.052
0106	-123.5235	40.4602	-10.32	7.38	0.30	0.32	-0.050
F381	-113.8091	41.4297	-3.26	-0.81	0.30	0.32	-0.064
BIRC	-112.7572	43.9596	-1.42	-1.59	0.30	0.31	-0.024
ASPA	-170.7224	-14.3261	-52.01	50.20	0.30	0.28	-0.122
LASS	-123.5545	40.3339	-10.92	8.92	0.30	0.31	-0.053
JAST	-120.7211	38.3397	-10.40	6.25	0.30	0.30	-0.045
JOAQ	-120.4352	35.9094	-12.68	17.97	0.30	0.31	-0.045
G068	-117.2210	34.0051	-18.63	22.26	0.30	0.32	-0.035
NDDD	-121.8090	37.0690	-21.41	26.57	0.30	0.31	-0.033
0225	-120.3791	40.1757	-7.33	4.74	0.30	0.31	-0.013
MNRH	-116.8357	34.3409	-11.96	11.24	0.30	0.30	-0.004
MILE	-116.4693	36.8377	-3.00	-0.25	0.30	0.30	-0.025
ALDE	-123.6932	40.1203	-15.77	15.77	0.30	0.31	-0.035
9629	-122.8801	38.6262	-16.87	24.27	0.30	0.33	-0.058
CAML	-121.9947	38.4167	-8.37	7.53	0.30	0.32	-0.041
HTR1	-120.1781	35.6860	-17.02	20.87	0.30	0.30	-0.033
SAL2	-119.9020	35.1334	-25.36	26.27	0.30	0.30	-0.040
I107	-112.0680	43.4810	-2.34	-1.72	0.30	0.32	-0.026

ASC1	-14. 4121	-7. 9512	-10. 22	-16. 40	0. 30	0. 29	0. 116
BLDK	-123. 8654	40. 8820	-1. 79	11. 21	0. 30	0. 31	-0. 049
PORT	-121. 9199	37. 0042	-25. 65	32. 07	0. 30	0. 30	-0. 026
LP2X	-121. 9087	37. 1039	-22. 65	28. 08	0. 30	0. 31	-0. 024
OQUI	-120. 4422	35. 8850	-23. 56	28. 50	0. 30	0. 31	-0. 046
KNEE	-123. 9748	40. 7266	-0. 61	13. 97	0. 30	0. 32	-0. 075
Z137	-121. 9737	37. 4801	-19. 18	22. 71	0. 30	0. 31	-0. 042
DBLO	-121. 9148	37. 8819	-11. 99	11. 13	0. 30	0. 31	-0. 059
OSR1	-121. 3750	37. 5083	-11. 02	7. 98	0. 30	0. 31	-0. 051
M902	-118. 9535	37. 8393	-8. 46	9. 94	0. 30	0. 30	-0. 047
PLS1	-114. 1139	47. 6638	-0. 19	-0. 97	0. 30	0. 31	-0. 008
TERR	-112. 2302	43. 8390	-2. 21	-2. 00	0. 30	0. 32	-0. 020
BARR	-120. 5732	35. 4557	-26. 98	32. 27	0. 30	0. 31	-0. 023
6106	-117. 3962	34. 0383	-21. 20	22. 56	0. 30	0. 31	-0. 013
DEVL	-117. 3389	34. 2171	-16. 52	16. 98	0. 30	0. 31	-0. 007
FT89	-122. 1233	37. 3627	-20. 85	25. 66	0. 30	0. 31	-0. 080
0685	-118. 6977	34. 1482	-27. 11	28. 98	0. 30	0. 32	0. 046
HMCP	-117. 7123	34. 1066	-22. 12	20. 61	0. 30	0. 30	-0. 025
STAN	-114. 9437	44. 2264	-1. 40	-0. 41	0. 30	0. 31	0. 016
UCBK	-122. 2652	37. 8718	-18. 04	21. 86	0. 31	0. 32	-0. 040
RRAZ	-118. 8271	37. 8897	-6. 03	9. 80	0. 31	0. 31	-0. 043
6108	-117. 3420	34. 2124	-18. 08	18. 44	0. 31	0. 30	-0. 023
AIRP	-111. 1108	44. 7002	-2. 75	-2. 88	0. 31	0. 31	-0. 009
9614	-122. 8984	38. 1726	-21. 74	30. 28	0. 31	0. 33	-0. 081
WHAL	-122. 5039	37. 5091	-25. 93	33. 15	0. 31	0. 32	-0. 036
MADI	-122. 2032	38. 3126	-12. 39	13. 02	0. 31	0. 33	-0. 015
HOLL	-121. 4071	36. 8558	-16. 17	10. 72	0. 31	0. 32	-0. 055
AIRR	-122. 4557	38. 2232	-15. 61	18. 02	0. 31	0. 32	-0. 014
GAME	-122. 1752	38. 3507	-10. 95	10. 25	0. 31	0. 32	-0. 018
ROC2	-122. 0615	37. 8150	-14. 16	14. 97	0. 31	0. 31	-0. 051
SFBC	-114. 8071	30. 9306	-30. 16	26. 96	0. 31	0. 28	-0. 035
POCR	-112. 4232	42. 8550	-3. 16	-1. 85	0. 31	0. 32	-0. 021
1012	-120. 1767	38. 6334	-9. 96	7. 24	0. 31	0. 32	-0. 008
E300	-115. 1302	38. 8899	-3. 04	-0. 65	0. 31	0. 31	-0. 023
HOLX	-110. 8558	44. 8188	-0. 98	1. 70	0. 31	0. 32	-0. 008
0063	-110. 3935	44. 5522	-0. 94	0. 50	0. 31	0. 31	-0. 013
CAAA	-121. 7826	37. 1864	-20. 63	21. 54	0. 31	0. 32	-0. 057
MAMM	-119. 0326	37. 6306	-6. 86	9. 97	0. 31	0. 31	-0. 027
ILLA	-123. 6815	42. 1045	-1. 25	8. 12	0. 31	0. 34	-0. 051
0221	-122. 9364	40. 3696	-9. 18	6. 62	0. 31	0. 33	-0. 085
9621	-122. 2994	38. 2711	-12. 75	14. 27	0. 31	0. 34	-0. 095
PK59	-120. 3061	35. 8956	-12. 48	16. 47	0. 31	0. 31	-0. 030
DUCK	-118. 9681	37. 5444	-8. 66	4. 88	0. 31	0. 28	-0. 031
NOUM	-193. 5898	-22. 2699	36. 92	57. 48	0. 31	0. 31	-0. 098
H104	-121. 1779	37. 4643	-10. 38	6. 42	0. 31	0. 32	-0. 044

PELI	-110. 1931	44. 6481	-1. 21	-0. 10	0. 31	0. 32	-0. 013
CAM4	-123. 7783	43. 0019	0. 42	7. 78	0. 31	0. 32	-0. 023
BAPK	-122. 2220	37. 8836	-15. 11	17. 70	0. 31	0. 33	-0. 052
CAS2	-122. 0692	37. 7324	-15. 32	16. 44	0. 31	0. 32	-0. 047
P208	-119. 9227	39. 1108	-8. 90	6. 29	0. 31	0. 34	-0. 045
OBSE	-119. 0881	37. 2912	-10. 22	7. 13	0. 31	0. 33	-0. 011
OBSI	-119. 0247	37. 7578	-8. 96	7. 38	0. 31	0. 32	-0. 025
MASO	-120. 4430	35. 8326	-22. 46	28. 81	0. 31	0. 32	-0. 032
GS28	-117. 6410	36. 3069	-6. 27	4. 56	0. 31	0. 32	-0. 030
1PDI	-116. 1632	36. 6903	-2. 30	-0. 74	0. 31	0. 32	-0. 019
RAYO	-115. 9577	31. 9730	-26. 49	29. 67	0. 31	0. 31	-0. 025
E200	-114. 9535	39. 2897	-3. 95	-0. 46	0. 31	0. 33	-0. 022
F100	-113. 5848	39. 5485	-2. 27	-1. 03	0. 31	0. 32	-0. 020
SIS3	-124. 2020	40. 7154	2. 08	19. 16	0. 32	0. 34	-0. 047
KNOB	-121. 4533	36. 8722	-16. 98	21. 13	0. 32	0. 32	-0. 014
CRAT	-119. 0191	37. 8000	-9. 68	7. 49	0. 32	0. 32	-0. 029
MINN	-121. 7224	37. 9540	-11. 53	6. 97	0. 32	0. 33	-0. 050
FLS2	-118. 4294	37. 7113	-5. 35	5. 62	0. 32	0. 31	-0. 038
H100	-111. 0204	39. 2933	-0. 48	-0. 37	0. 32	0. 32	-0. 011
CARR	-120. 4308	35. 8884	-19. 19	28. 88	0. 32	0. 32	-0. 027
JUCT	-119. 0910	37. 8867	-10. 04	9. 67	0. 32	0. 34	-0. 076
LUCS	-116. 8820	34. 4395	-11. 62	12. 79	0. 32	0. 33	-0. 014
D100	-116. 1609	40. 0836	-3. 60	-0. 42	0. 32	0. 32	-0. 033
MN71	-116. 1489	36. 9940	-2. 23	-0. 14	0. 32	0. 32	-0. 017
CRAA	-113. 1476	43. 5915	-3. 21	-1. 77	0. 32	0. 32	-0. 012
WORD	-122. 7682	48. 1408	4. 21	3. 36	0. 32	0. 35	-0. 047
SMOA	-118. 9061	37. 6284	-8. 79	9. 82	0. 32	0. 32	-0. 033
WTMR	-118. 8188	37. 6312	-6. 87	8. 73	0. 32	0. 32	-0. 025
TUNS	-118. 5282	37. 3692	-7. 49	6. 39	0. 32	0. 31	-0. 069
KMED	-118. 1357	36. 0233	-9. 68	8. 92	0. 32	0. 32	-0. 021
LLCO	-116. 1607	31. 2566	-31. 03	30. 96	0. 32	0. 32	-0. 021
E100	-114. 6520	39. 9017	-3. 22	-1. 00	0. 32	0. 32	-0. 018
PENA	-113. 5195	31. 3538	-1. 41	1. 06	0. 32	0. 28	-0. 049
ABDI	-112. 4705	43. 2230	-2. 67	-1. 39	0. 32	0. 32	-0. 012
TROU	-110. 5051	44. 6158	0. 65	-1. 62	0. 32	0. 33	-0. 011
MEDA	-121. 5663	37. 7553	-10. 90	7. 54	0. 32	0. 34	-0. 049
W916	-119. 1604	38. 0452	-9. 80	10. 68	0. 32	0. 36	-0. 046
G916	-118. 8904	37. 7462	-7. 17	6. 64	0. 32	0. 33	-0. 037
SG85	-118. 8473	37. 7367	-7. 61	6. 10	0. 32	0. 33	-0. 036
WASH	-110. 4339	44. 7977	0. 94	-1. 32	0. 32	0. 33	-0. 030
REUB	-123. 5971	42. 7188	-0. 54	7. 26	0. 32	0. 33	-0. 035
STA1	-122. 9853	46. 6708	3. 10	4. 51	0. 32	0. 34	-0. 021
33JD	-120. 4647	35. 9429	-11. 63	17. 40	0. 32	0. 33	-0. 050
CIRC	-112. 6333	43. 8304	-2. 29	-1. 64	0. 32	0. 34	-0. 008
OLYM	-122. 9076	46. 9669	3. 94	4. 27	0. 32	0. 34	-0. 033

MORS	-121. 4942	36. 8411	-16. 81	22. 87	0. 32	0. 34	-0. 018
REFU	-120. 0521	34. 5348	-30. 54	31. 89	0. 32	0. 32	-0. 017
NAPO	-119. 9593	35. 5034	-16. 62	19. 75	0. 32	0. 32	-0. 027
GVWP	-117. 2200	34. 2862	-13. 70	14. 36	0. 32	0. 32	-0. 001
COLA	-116. 2120	31. 1007	-31. 34	31. 39	0. 32	0. 32	-0. 025
LPUR	-115. 3429	32. 3557	-19. 28	26. 00	0. 32	0. 32	-0. 011
5223	-113. 1933	43. 5577	-2. 43	-1. 76	0. 32	0. 33	0. 044
MAZZ	-121. 7875	37. 1371	-21. 19	23. 30	0. 32	0. 34	-0. 033
SHR2	-120. 6824	36. 0297	-26. 08	32. 46	0. 32	0. 32	-0. 022
VLBI	-118. 9452	37. 6416	-8. 52	8. 43	0. 32	0. 33	-0. 029
PANA	-117. 1743	36. 2941	-4. 08	2. 74	0. 32	0. 33	-0. 019
1111	-115. 5188	33. 2309	-4. 09	1. 37	0. 32	0. 34	-0. 038
DEET	-115. 3310	41. 0543	-5. 05	-0. 41	0. 32	0. 34	-0. 014
DONA	-113. 5596	44. 2661	-1. 48	-0. 60	0. 32	0. 34	-0. 003
FRA2	-110. 3539	44. 4132	-1. 17	-0. 18	0. 32	0. 33	-0. 009
LHAS	-268. 8960	29. 6573	41. 00	-0. 11	0. 32	0. 30	-0. 004
0222	-122. 2240	40. 1599	-9. 25	6. 21	0. 32	0. 36	-0. 055
0304	-121. 9018	39. 1433	-9. 89	5. 19	0. 32	0. 34	0. 003
A210	-120. 1422	39. 3577	-9. 37	6. 00	0. 32	0. 34	-0. 006
GAIR	-118. 2696	29. 0258	-36. 12	35. 26	0. 32	0. 30	-0. 023
CARY	-116. 7355	33. 5454	-21. 01	24. 21	0. 32	0. 32	-0. 027
CAPE	-124. 5653	42. 8366	5. 49	12. 48	0. 33	0. 34	-0. 065
BHRM	-120. 8317	35. 3587	-28. 13	34. 59	0. 33	0. 33	-0. 042
YAR1	-244. 6530	-29. 0466	59. 76	47. 30	0. 33	0. 32	-0. 028
CHEC	-120. 5841	35. 9704	-25. 15	31. 10	0. 33	0. 34	-0. 034
D124	-118. 7598	37. 5727	-7. 23	6. 16	0. 33	0. 34	-0. 038
0212	-122. 4349	40. 9571	-7. 76	6. 19	0. 33	0. 36	-0. 062
LP4X	-121. 8388	37. 0501	-22. 96	28. 20	0. 33	0. 34	-0. 034
CARX	-120. 4306	35. 8881	-21. 36	27. 62	0. 33	0. 33	-0. 037
KNGR	-120. 3472	35. 9137	-12. 65	17. 65	0. 33	0. 34	-0. 036
C100	-117. 5089	39. 6857	-4. 00	0. 06	0. 33	0. 33	-0. 032
RLOV	-116. 6317	32. 1178	-28. 20	30. 22	0. 33	0. 32	-0. 027
IDT3	-116. 2800	44. 9742	-1. 11	-1. 26	0. 33	0. 35	0. 037
BLAC	-115. 7198	33. 6637	-5. 10	1. 89	0. 33	0. 30	-0. 053
SALD	-115. 3868	31. 7718	-25. 44	27. 84	0. 33	0. 32	-0. 026
F300	-113. 6668	38. 7947	-3. 44	-0. 29	0. 33	0. 33	-0. 024
SHW1	-123. 6975	40. 5789	-6. 60	8. 52	0. 33	0. 35	-0. 051
CKET	-122. 2294	38. 0427	-14. 77	16. 07	0. 33	0. 33	-0. 028
SLBB	-122. 1837	37. 6908	-19. 14	21. 65	0. 33	0. 34	-0. 042
PGN5	-121. 6210	36. 8918	-26. 31	31. 12	0. 33	0. 33	-0. 014
M905	-119. 0257	37. 8692	-9. 65	10. 35	0. 33	0. 38	-0. 038
D300	-116. 7457	39. 0562	-3. 70	-0. 16	0. 33	0. 33	-0. 019
D200	-116. 3063	39. 5337	-3. 25	-0. 30	0. 33	0. 35	-0. 026
ELJA	-115. 7598	31. 4930	-28. 74	29. 90	0. 33	0. 33	-0. 011
JOHN	-110. 9495	43. 8898	-2. 29	-2. 34	0. 33	0. 34	-0. 010

DOSP	-119. 9358	34. 5265	-31. 07	30. 98	0. 33	0. 33	-0. 013
0613	-119. 2590	35. 8191	-12. 03	10. 22	0. 33	0. 34	0. 025
WAUC	-117. 9872	37. 0924	-5. 86	4. 33	0. 33	0. 33	-0. 012
G300	-112. 5937	38. 6023	-2. 54	-0. 45	0. 33	0. 33	-0. 023
HOTS	-110. 2571	44. 7441	-1. 97	-1. 68	0. 33	0. 34	-0. 007
0223	-121. 4315	40. 2713	-8. 96	6. 16	0. 33	0. 36	-0. 023
RH32	-120. 2606	35. 6050	-23. 11	26. 22	0. 33	0. 33	-0. 027
MELR	-115. 7386	30. 9797	-30. 98	30. 84	0. 33	0. 33	-0. 026
10RD	-110. 6142	44. 6123	-0. 08	-1. 36	0. 33	0. 35	-0. 009
0220	-120. 3665	40. 7992	-6. 05	3. 21	0. 33	0. 35	-0. 006
FLRN	-119. 2027	39. 9437	-6. 42	2. 38	0. 33	0. 34	-0. 012
POIR	-123. 0309	39. 7288	-12. 58	6. 97	0. 33	0. 34	-0. 019
0229	-122. 5768	40. 6476	-7. 62	5. 09	0. 33	0. 35	-0. 071
MIDE	-120. 4983	35. 9496	-22. 62	24. 15	0. 33	0. 34	-0. 048
CENT	-119. 7529	33. 9948	-28. 73	33. 48	0. 33	0. 28	-0. 056
TIOG	-119. 2502	37. 9315	-10. 82	8. 96	0. 33	0. 34	-0. 044
GUAD	-118. 2893	28. 8851	-36. 13	34. 63	0. 33	0. 28	-0. 046
JOBE	-121. 7925	37. 9215	-11. 17	7. 74	0. 33	0. 35	-0. 065
0509	-121. 4844	35. 9922	-28. 46	34. 85	0. 33	0. 34	-0. 014
FERG	-118. 1612	38. 6573	-4. 63	1. 93	0. 33	0. 31	-0. 040
FSHO	-118. 0463	37. 7370	-4. 66	3. 28	0. 33	0. 34	-0. 024
INDE	-115. 9376	31. 5515	-28. 89	30. 15	0. 33	0. 33	-0. 015
LASY	-119. 9568	35. 4411	-19. 70	21. 42	0. 34	0. 33	-0. 025
EARN	-119. 4825	39. 5521	-8. 06	3. 28	0. 34	0. 34	-0. 009
SAIS	-116. 2231	31. 1915	-31. 44	31. 25	0. 34	0. 33	-0. 018
ELCH	-115. 0543	31. 4924	-26. 33	27. 28	0. 34	0. 33	-0. 014
N056	-112. 6978	43. 3256	-2. 92	-1. 06	0. 34	0. 33	-0. 008
PITS	-110. 4730	44. 5200	-1. 15	-1. 75	0. 34	0. 34	-0. 003
BOLI	-123. 8363	42. 7918	0. 36	8. 08	0. 34	0. 35	-0. 053
HNTO	-118. 5421	38. 0339	-3. 33	6. 16	0. 34	0. 33	-0. 012
32FM	-113. 6772	43. 2924	-2. 45	-0. 34	0. 34	0. 36	-0. 016
9622	-122. 2041	38. 3986	-11. 15	11. 01	0. 34	0. 38	-0. 087
BURD	-121. 9466	37. 1103	-25. 16	27. 70	0. 34	0. 34	-0. 018
BREK	-120. 4625	35. 8877	-22. 76	29. 00	0. 34	0. 34	-0. 044
UU83	-120. 3249	39. 3180	-9. 39	6. 11	0. 34	0. 36	-0. 015
3188	-118. 1322	36. 4661	-8. 81	8. 30	0. 34	0. 34	-0. 021
PAIN	-116. 0085	33. 6120	-10. 06	7. 85	0. 34	0. 34	-0. 044
CTWD	-120. 2225	35. 7878	-14. 67	18. 15	0. 34	0. 34	-0. 029
RCAG	-119. 7199	34. 4999	-30. 49	29. 14	0. 34	0. 34	-0. 008
FIBR	-119. 3940	35. 3985	-13. 27	11. 22	0. 34	0. 28	0. 004
WAHO	-116. 3234	36. 7814	-3. 03	-0. 32	0. 34	0. 34	-0. 019
CADG	-116. 3220	31. 3611	-30. 48	31. 44	0. 34	0. 34	-0. 013
GREV	-124. 2787	47. 3042	13. 82	11. 26	0. 34	0. 36	-0. 026
TUCK	-123. 4029	48. 1398	5. 09	3. 26	0. 34	0. 35	-0. 009
OASI	-117. 8103	37. 5237	-4. 53	2. 31	0. 34	0. 34	-0. 005

J041	-110.6356	43.8049	-1.58	-1.62	0.34	0.35	-0.034
BIGT	-110.5692	44.4050	-2.55	-1.42	0.34	0.36	-0.031
P750	-124.1752	43.1236	2.11	9.07	0.34	0.37	-0.050
0308	-121.8021	38.7172	-11.62	8.53	0.34	0.35	-0.026
77RT	-121.5683	36.8734	-22.16	26.35	0.34	0.35	-0.011
BLAB	-119.0578	39.5793	-5.78	3.51	0.34	0.36	-0.015
67TJ	-116.3962	36.8132	-3.33	-0.01	0.34	0.35	-0.016
LOSA	-116.3044	31.4625	-30.42	31.17	0.34	0.34	-0.013
ANDR	-114.0240	44.1978	-2.02	-0.82	0.34	0.33	0.039
GRAN	-110.9929	43.7685	-1.94	-2.92	0.34	0.36	-0.035
MOND	-118.2829	39.3959	-4.93	1.70	0.34	0.34	-0.012
C200	-117.7117	39.2637	-3.37	-0.37	0.34	0.37	-0.034
D240	-115.7991	39.3806	-3.21	-0.59	0.34	0.36	-0.011
SLVZ	-114.2535	40.8855	-3.48	-0.54	0.34	0.38	-0.027
F200	-113.6297	39.0813	-3.17	-0.38	0.34	0.37	0.001
J161	-111.2153	45.0956	0.03	-0.19	0.34	0.37	-0.017
R161	-111.0752	44.9639	0.26	1.25	0.34	0.36	-0.028
BIL1	-107.9965	45.9712	-0.28	-1.00	0.34	0.34	-0.005
B112	-121.6754	37.6942	-11.91	7.80	0.34	0.37	-0.053
NEV1	-117.2860	37.0606	-3.18	1.20	0.34	0.35	-0.027
NBCG	-124.5988	48.3702	8.94	6.27	0.34	0.36	-0.012
FARF	-120.4952	34.7665	-31.02	34.28	0.34	0.34	-0.014
MICR	-118.9815	37.7654	-8.26	7.33	0.34	0.35	-0.047
G200	-112.2421	39.1399	-3.10	-0.20	0.34	0.36	0.008
RIOG	-67.7511	-53.7855	-18.02	12.87	0.34	0.32	0.039
G089	-124.4276	42.4207	4.04	11.52	0.34	0.37	-0.048
BEAR	-124.2945	40.4977	-2.35	28.11	0.34	0.35	-0.030
VSTA	-119.6980	39.5330	-7.05	4.42	0.34	0.36	-0.020
GEEE	-118.8438	37.4905	-8.92	6.58	0.34	0.35	-0.030
4JDD	-118.7632	37.6995	-6.07	7.52	0.34	0.37	-0.038
YUNG	-117.1447	33.4302	-25.22	26.61	0.34	0.35	-0.026
D260	-115.5558	39.4021	-2.87	-0.48	0.34	0.37	-0.003
0108	-123.4935	40.8153	-5.55	8.00	0.34	0.37	-0.063
CAUV	-119.8509	35.3581	-18.58	20.14	0.34	0.34	-0.014
CONV	-118.8112	37.6149	-6.78	8.32	0.34	0.36	-0.047
S138	-111.2356	44.8012	-1.01	-0.52	0.34	0.37	-0.015
0110	-123.4759	41.4002	-1.23	7.73	0.35	0.36	-0.067
D143	-120.2352	39.8094	-10.31	5.77	0.35	0.35	0.030
FIGP	-119.9651	34.7229	-29.96	29.46	0.35	0.34	-0.012
RITA	-118.1010	36.9141	-7.06	5.34	0.35	0.35	-0.018
BLC1	-116.5748	36.8088	-3.12	0.12	0.35	0.35	-0.016
Z425	-113.9871	44.0075	-2.10	-0.91	0.35	0.38	-0.029
SNDR	-123.1413	47.2366	3.66	4.88	0.35	0.36	-0.019
BRYN	-117.2656	34.0632	-19.05	18.90	0.35	0.38	0.015
NEZP	-110.8200	44.5732	-4.43	-4.41	0.35	0.37	-0.021

E11A	-110. 4549	44. 6406	0. 75	-1. 12	0. 35	0. 38	-0. 025
ROSE	-123. 3553	43. 2456	-0. 50	6. 33	0. 35	0. 37	-0. 023
SCOT	-123. 0649	43. 3723	0. 30	5. 95	0. 35	0. 37	-0. 038
0218	-121. 9941	40. 5014	-8. 13	5. 23	0. 35	0. 38	-0. 047
PILG	-121. 9819	41. 2597	-6. 37	4. 77	0. 35	0. 36	-0. 013
RATT	-118. 7032	39. 9954	-5. 84	1. 48	0. 35	0. 36	-0. 014
BAMA	-118. 1195	36. 6026	-8. 18	7. 50	0. 35	0. 35	-0. 031
GT01	-110. 6128	43. 7613	-1. 96	-1. 21	0. 35	0. 36	-0. 019
0111	-124. 0332	41. 5218	2. 81	10. 17	0. 35	0. 39	-0. 109
LEON	-121. 8740	36. 9461	-27. 24	32. 50	0. 35	0. 36	0. 071
N295	-117. 9857	38. 8202	-4. 30	1. 18	0. 35	0. 35	-0. 044
D220	-115. 9761	39. 5432	-3. 66	-0. 06	0. 35	0. 38	-0. 006
E260	-114. 2042	39. 0968	-3. 19	-0. 52	0. 35	0. 38	-0. 013
EISL	-109. 3833	-27. 1482	63. 84	6. 95	0. 35	0. 31	-0. 045
EA40	-123. 4091	47. 9392	5. 21	3. 34	0. 35	0. 37	-0. 002
LKMT	-118. 9475	37. 7287	-7. 93	5. 82	0. 35	0. 38	-0. 015
0657	-118. 6437	34. 2636	-26. 55	27. 98	0. 35	0. 35	-0. 005
SCTY	-117. 1365	37. 2182	-2. 97	0. 61	0. 35	0. 35	-0. 016
RGBY	-111. 9203	43. 6572	-2. 15	-1. 89	0. 35	0. 35	0. 001
VNDN	-120. 6162	34. 5563	-31. 55	35. 78	0. 35	0. 28	-0. 032
CAND	-118. 1034	38. 1501	-3. 88	2. 54	0. 35	0. 34	-0. 009
BUFF	-117. 8068	39. 1459	-3. 40	0. 48	0. 35	0. 36	-0. 007
H200	-111. 1114	38. 8326	-0. 92	-0. 06	0. 35	0. 38	0. 006
VANB	-121. 7947	41. 6434	-4. 02	4. 74	0. 35	0. 37	0. 003
COYY	-121. 7380	37. 2192	-20. 09	20. 95	0. 35	0. 36	-0. 049
SPR4	-121. 1371	46. 2269	1. 58	1. 77	0. 35	0. 36	-0. 016
CHIL	-119. 2028	39. 3582	-7. 37	3. 48	0. 35	0. 37	-0. 013
CERR	-117. 7868	36. 5377	-6. 81	4. 29	0. 35	0. 36	-0. 026
JOBU	-117. 6921	35. 3370	-7. 77	10. 45	0. 35	0. 36	-0. 016
TOMT	-116. 6419	33. 9249	-12. 34	17. 81	0. 35	0. 37	-0. 036
F280	-112. 5456	39. 3670	-2. 70	-0. 51	0. 35	0. 39	0. 017
Z157	-110. 6989	44. 7382	-0. 51	0. 22	0. 35	0. 38	-0. 020
FLAG	-110. 6673	44. 0996	-3. 67	-0. 68	0. 35	0. 38	-0. 037
ARBE	-110. 4392	44. 6306	0. 15	-0. 69	0. 35	0. 39	-0. 013
STEA	-122. 7383	43. 3435	-0. 88	5. 45	0. 35	0. 39	-0. 063
PEEE	-122. 3822	37. 5922	-21. 82	27. 03	0. 35	0. 37	-0. 041
GORR	-122. 1146	38. 3312	-11. 01	9. 09	0. 35	0. 41	-0. 074
MAGU	-119. 7901	39. 3673	-8. 87	6. 12	0. 35	0. 38	-0. 021
C280	-116. 6213	39. 4768	-3. 04	-0. 22	0. 35	0. 38	-0. 004
F250	-113. 0458	39. 2829	-2. 88	-0. 30	0. 35	0. 38	0. 007
H146	-111. 6792	45. 2324	-0. 04	-0. 19	0. 35	0. 41	0. 049
SHOA	-110. 6437	44. 4336	-1. 77	-0. 85	0. 35	0. 39	-0. 022
BLUE	-123. 2596	47. 9550	4. 69	4. 23	0. 35	0. 39	-0. 009
BLK4	-122. 4642	43. 1600	-0. 20	4. 68	0. 35	0. 38	-0. 037
HILL	-122. 1282	37. 9369	-13. 31	15. 14	0. 35	0. 38	-0. 028

TKTJ	-117. 5465	36. 7594	-4. 47	2. 80	0. 35	0. 36	-0. 017
CHPA	-116. 5641	34. 1499	-7. 52	12. 08	0. 35	0. 36	0. 020
L011	-111. 3048	44. 3170	-2. 32	-3. 25	0. 35	0. 38	-0. 032
Z161	-111. 1045	44. 7954	-0. 70	1. 04	0. 35	0. 40	-0. 005
LOMA	-121. 8442	37. 1110	-21. 54	25. 45	0. 36	0. 37	-0. 020
WICK	-121. 6877	43. 6824	-1. 42	4. 14	0. 36	0. 39	-0. 071
PANC	-120. 7395	36. 6979	-9. 84	8. 69	0. 36	0. 36	-0. 033
Y423	-113. 7386	42. 5666	-3. 66	-0. 66	0. 36	0. 38	-0. 014
OZ36	-113. 2217	43. 5792	-2. 59	-1. 45	0. 36	0. 35	-0. 001
HARL	-110. 8887	44. 6396	-5. 54	-2. 89	0. 36	0. 39	-0. 031
CV24	-110. 2762	44. 5172	-0. 74	0. 38	0. 36	0. 37	-0. 028
TUM_	-120. 6653	36. 6111	-9. 82	8. 45	0. 36	0. 36	-0. 034
LACY	-116. 9945	33. 8712	-16. 61	19. 71	0. 36	0. 36	0. 007
PRCE	-124. 1200	40. 4164	-8. 38	23. 51	0. 36	0. 38	-0. 120
0402	-122. 2162	37. 0282	-27. 65	34. 41	0. 36	0. 39	-0. 020
GULL	-118. 7479	37. 6366	-6. 02	8. 09	0. 36	0. 39	-0. 017
MJR1	-116. 8908	35. 3316	-6. 07	5. 88	0. 36	0. 36	-0. 006
E220	-114. 6579	39. 0330	-3. 27	-0. 67	0. 36	0. 39	0. 010
C157	-110. 7019	44. 9701	2. 06	0. 49	0. 36	0. 39	-0. 018
25MD	-110. 4858	44. 6776	1. 34	-0. 96	0. 36	0. 39	-0. 024
BONN	-120. 2638	35. 8776	-13. 58	16. 37	0. 36	0. 37	-0. 033
GRAT	-118. 7893	37. 6551	-7. 42	8. 29	0. 36	0. 39	-0. 021
GS04	-117. 9066	36. 2035	-7. 80	6. 63	0. 36	0. 37	0. 001
C220	-117. 4115	39. 3576	-3. 44	0. 09	0. 36	0. 39	-0. 019
C240	-117. 1423	39. 4866	-3. 51	-0. 08	0. 36	0. 38	-0. 017
E280	-113. 8869	39. 0445	-3. 36	-0. 60	0. 36	0. 39	0. 001
G280	-111. 3810	38. 7549	-0. 69	-0. 17	0. 36	0. 39	0. 009
KAYG	-110. 4641	44. 6629	0. 79	-1. 91	0. 36	0. 40	-0. 012
LEHA	-110. 3868	44. 5995	-0. 29	-0. 61	0. 36	0. 40	-0. 015
DUNG	-123. 1103	48. 1813	3. 49	3. 19	0. 36	0. 39	-0. 015
JD52	-118. 5896	37. 6568	-5. 14	6. 69	0. 36	0. 39	-0. 014
6813	-117. 6752	36. 1504	-8. 72	3. 95	0. 36	0. 37	-0. 007
P16X	-116. 7460	36. 8282	-3. 34	0. 18	0. 36	0. 38	-0. 021
SM01	-115. 8348	31. 6236	-28. 22	29. 51	0. 36	0. 35	0. 007
MORA	-110. 7212	43. 8657	-1. 93	-1. 72	0. 36	0. 37	0. 002
HOBL	-110. 4949	44. 7227	0. 77	-0. 77	0. 36	0. 40	-0. 017
E240	-114. 4535	39. 0687	-2. 66	-0. 13	0. 36	0. 39	0. 002
GT24	-110. 7258	43. 7501	-1. 80	-1. 41	0. 36	0. 38	-0. 022
GILR	-121. 6163	36. 9798	-19. 79	22. 28	0. 36	0. 36	-0. 009
RONA	-121. 4624	41. 4273	-5. 17	4. 51	0. 36	0. 39	0. 007
P807	-119. 8535	35. 6035	-12. 88	14. 74	0. 36	0. 36	-0. 048
LAKE	-119. 0026	37. 6154	-9. 20	9. 95	0. 36	0. 40	-0. 018
HICK	-118. 8178	38. 2799	-6. 92	5. 36	0. 36	0. 35	-0. 024
SANH	-116. 2789	34. 2550	-4. 58	7. 20	0. 36	0. 36	-0. 021
F230	-113. 2236	39. 2538	-2. 56	-0. 14	0. 36	0. 40	0. 012

H300	-111.3590	38.4828	-1.28	0.28	0.36	0.38	-0.013
G103	-111.2496	45.2693	0.04	0.39	0.36	0.40	-0.043
HULA	-110.9916	44.6602	-3.82	-2.01	0.36	0.40	-0.023
THER	-110.8326	44.5161	-3.11	-4.65	0.36	0.39	-0.023
GORD	-123.9373	41.9861	-0.15	9.11	0.36	0.40	-0.075
HUR2	-123.5290	47.9903	5.80	4.90	0.36	0.41	-0.005
V209	-119.5439	39.0830	-7.38	5.11	0.36	0.39	-0.014
MN54	-118.0567	39.2045	-4.56	0.79	0.36	0.37	-0.035
FLAT	-117.5612	36.5187	-4.54	2.28	0.36	0.37	-0.018
PAR2	-116.3003	35.8670	-3.82	0.88	0.36	0.39	-0.065
RVAL	-115.4020	35.1417	-2.05	-0.63	0.36	0.36	-0.019
MALL	-110.7852	44.4674	-1.42	-3.20	0.36	0.39	-0.019
PIBU	-121.2833	44.0605	0.13	2.50	0.36	0.42	-0.064
WOND	-118.0568	39.4093	-4.31	1.20	0.36	0.37	-0.024
TINP	-117.5003	36.8649	-4.14	2.52	0.36	0.37	-0.020
FATL	-117.1607	33.9637	-19.51	19.74	0.36	0.38	0.013
PEQU	-114.5199	41.0577	-2.46	-1.25	0.36	0.42	-0.044
GT12	-110.6676	43.7538	-1.67	-2.97	0.36	0.38	-0.012
9611	-122.8004	38.0579	-22.85	30.47	0.36	0.39	-0.102
HUNT	-117.4792	36.5724	-4.33	2.77	0.36	0.38	-0.022
M586	-116.6890	33.5550	-20.44	23.31	0.36	0.36	-0.021
JT10	-116.3491	34.0295	-7.31	9.37	0.36	0.38	-0.008
F210	-113.5304	39.0864	-3.28	-0.17	0.36	0.41	0.012
TESA	-110.5107	43.8403	-1.73	-0.43	0.36	0.40	-0.029
AGUE	-117.0526	36.3570	-4.44	2.48	0.37	0.37	-0.023
P229	-124.3719	40.3924	-12.57	29.23	0.37	0.37	-0.053
HORS	-123.7330	40.8747	-2.92	8.80	0.37	0.42	-0.055
EASN	-121.1711	47.2317	4.24	3.40	0.37	0.40	-0.012
ELAL	-116.2099	31.8453	-28.56	29.93	0.37	0.36	-0.021
M157	-110.7325	44.8882	-0.13	0.03	0.37	0.41	-0.047
Y368	-110.0629	44.9794	0.57	-1.70	0.37	0.40	-0.015
FISH	-124.2681	42.0462	2.64	10.45	0.37	0.40	-0.030
5CLA	-119.0520	37.8110	-11.41	10.90	0.37	0.42	-0.090
DIXI	-118.1670	39.3861	-4.24	1.67	0.37	0.37	0.004
GRAP	-117.3598	36.9922	-3.81	1.22	0.37	0.38	-0.024
BECH	-111.0457	44.1493	-2.31	-2.54	0.37	0.38	-0.007
SOR4	-122.4792	42.0647	-3.02	5.07	0.37	0.36	-0.086
PIPK	-117.9741	38.3430	-3.81	2.10	0.37	0.36	-0.024
SJUA	-117.7381	33.9138	-25.15	25.08	0.37	0.33	-0.046
COND	-116.1687	32.4669	-27.32	28.41	0.37	0.37	-0.007
0505	-120.5842	35.0842	-29.52	32.83	0.37	0.39	0.012
SPR1	-118.7273	36.1847	-10.17	9.31	0.37	0.37	-0.015
HOLT	-115.3963	32.7814	-3.55	8.81	0.37	0.37	-0.024
G230	-111.9145	38.9613	-1.33	0.37	0.37	0.40	0.021
D092	-111.3562	44.6556	-1.92	-3.54	0.37	0.40	-0.009

AOML	-80. 1622	25. 7347	1. 53	-0. 25	0. 37	0. 36	0. 005
Q122	-115. 5088	33. 0823	-5. 11	3. 70	0. 37	0. 39	0. 016
LEWA	-110. 6346	44. 2675	-1. 90	-1. 12	0. 37	0. 42	-0. 046
GWM2	-110. 2454	44. 9030	0. 29	-0. 66	0. 37	0. 42	-0. 023
PALO	-122. 4562	37. 5268	-25. 14	30. 99	0. 37	0. 39	-0. 024
LEEF	-117. 6124	36. 4972	-5. 84	3. 67	0. 37	0. 38	-0. 014
F23X	-116. 8620	36. 8576	-3. 03	0. 06	0. 37	0. 39	-0. 011
CPEI	-114. 9144	32. 2514	-7. 25	6. 25	0. 37	0. 38	0. 006
PGN1	-121. 5427	36. 8382	-28. 54	34. 21	0. 37	0. 38	-0. 006
E818	-118. 4555	37. 8854	-4. 44	4. 88	0. 37	0. 37	-0. 013
SND1	-117. 4493	37. 0193	-4. 03	1. 98	0. 37	0. 39	-0. 023
OAKR	-122. 4985	43. 7518	0. 82	4. 88	0. 37	0. 41	-0. 027
WD42	-120. 4692	35. 7633	-23. 61	29. 74	0. 37	0. 38	-0. 035
13DD	-117. 4242	36. 3396	-5. 80	3. 38	0. 37	0. 39	-0. 018
CHER	-116. 9518	34. 0028	-15. 55	16. 06	0. 37	0. 39	0. 013
HELO	-115. 6244	40. 9503	-3. 67	-0. 64	0. 37	0. 43	-0. 038
ASA1	-115. 2458	32. 6292	-7. 61	7. 26	0. 37	0. 36	-0. 040
OCOT	-115. 7962	32. 7901	-22. 95	26. 08	0. 38	0. 37	-0. 043
1104	-115. 2831	32. 6963	-5. 62	10. 75	0. 38	0. 40	-0. 048
JUNC	-115. 0619	32. 7092	-2. 80	2. 06	0. 38	0. 40	0. 033
G210	-112. 0983	39. 2410	-2. 23	0. 37	0. 38	0. 41	0. 019
A162	-110. 7872	45. 1022	0. 68	-0. 10	0. 38	0. 41	-0. 011
G270	-111. 5368	38. 8392	-1. 41	-0. 19	0. 38	0. 41	0. 021
TONI	-110. 9559	44. 4132	-1. 35	-1. 98	0. 38	0. 39	-0. 008
Z367	-110. 4888	44. 6793	1. 13	-1. 52	0. 38	0. 42	-0. 041
01CJ	-122. 7826	39. 0699	-14. 74	10. 86	0. 38	0. 47	-0. 114
HOLD	-117. 0273	36. 6379	-3. 12	1. 20	0. 38	0. 39	-0. 005
E122	-115. 5945	32. 7998	-18. 22	22. 12	0. 38	0. 39	-0. 048
G250	-111. 7383	38. 9044	-4. 30	1. 76	0. 38	0. 40	0. 032
GALA	-90. 3036	-0. 7427	52. 62	15. 10	0. 38	0. 35	-0. 004
0113	-124. 1584	41. 9325	1. 46	9. 82	0. 38	0. 39	-0. 006
0217	-122. 9419	40. 6521	-7. 42	6. 42	0. 38	0. 43	-0. 086
10BB	-119. 6969	39. 2847	-7. 12	5. 03	0. 38	0. 42	-0. 043
0614	-118. 5877	35. 7450	-10. 61	9. 18	0. 38	0. 38	-0. 017
TERN	-110. 2598	44. 6681	-0. 76	-0. 57	0. 38	0. 39	-0. 003
BRAN	-117. 6993	38. 3281	-3. 13	1. 35	0. 38	0. 38	-0. 036
1225	-115. 5412	32. 9417	-7. 82	12. 87	0. 38	0. 39	0. 007
BLCO	-124. 4857	42. 8011	4. 21	11. 51	0. 38	0. 42	-0. 037
1008	-119. 6421	38. 3346	-10. 06	7. 26	0. 38	0. 39	0. 005
B200	-118. 9388	39. 5131	-5. 23	3. 17	0. 38	0. 43	-0. 021
7211	-116. 9738	34. 2808	-11. 62	13. 30	0. 38	0. 38	0. 016
F220	-113. 3848	39. 0238	-3. 29	-0. 32	0. 38	0. 42	-0. 006
AVI2	-122. 2491	47. 6857	3. 61	1. 79	0. 38	0. 43	-0. 064
AGGI	-118. 1264	39. 0032	-4. 16	1. 37	0. 38	0. 37	-0. 038
CEDI	-117. 8235	38. 5312	-3. 93	1. 00	0. 38	0. 36	-0. 041

S318	-116.9313	32.9118	-27.24	28.18	0.38	0.39	-0.026
BEA1	-111.4207	41.9335	-0.89	0.09	0.38	0.38	-0.004
STN1	-110.3246	44.5941	-1.45	0.92	0.38	0.39	-0.009
METC	-121.7139	37.2289	-20.09	21.05	0.38	0.39	-0.020
A300	-119.9241	38.7772	-10.78	6.75	0.38	0.43	-0.058
CHLK	-119.8758	39.5135	-7.71	3.30	0.38	0.41	-0.016
CV23	-110.3863	44.5681	0.58	2.13	0.38	0.43	-0.039
0606	-119.7577	36.6984	-10.09	9.16	0.38	0.37	0.036
G220	-112.0415	39.0784	-2.34	-0.11	0.38	0.44	0.004
B387	-118.1435	39.6740	-5.73	1.58	0.38	0.40	-0.002
M093	-116.9292	36.7922	-3.72	0.32	0.38	0.40	-0.005
0508	-120.7993	35.8548	-26.79	32.93	0.39	0.41	0.025
TION	-119.2562	37.9291	-9.91	9.06	0.39	0.41	-0.031
TID3	-124.3303	43.3500	5.26	10.14	0.39	0.43	-0.110
PGN4	-121.5851	36.8874	-22.23	28.15	0.39	0.39	-0.008
OROO	-118.4471	38.4038	-4.97	3.59	0.39	0.36	-0.085
G114	-116.6129	33.5502	-19.06	22.00	0.39	0.39	-0.025
LAW1	-116.5882	34.5424	-8.63	9.70	0.39	0.39	-0.006
NIGU	-117.7303	33.5145	-27.52	30.64	0.39	0.32	-0.061
METZ	-117.2317	33.7964	-22.10	23.07	0.39	0.41	0.021
0411	-123.0381	38.3240	-22.02	30.94	0.39	0.41	-0.048
0207	-122.8969	41.4626	-4.33	7.14	0.39	0.43	-0.125
VIDA	-122.5706	44.1456	1.26	4.79	0.39	0.43	-0.093
BROT	-120.6003	43.8138	-0.24	2.32	0.39	0.43	0.016
43JD	-119.6584	39.8479	-7.71	4.01	0.39	0.43	-0.047
SHEL	-118.3245	39.0432	-4.60	0.87	0.39	0.38	-0.020
BLUF	-110.3748	44.6620	0.41	-0.38	0.39	0.41	0.001
SIST	-121.5559	44.3057	0.83	2.36	0.39	0.45	-0.060
GRAS	-110.8204	44.1315	-1.74	-0.39	0.39	0.42	-0.014
AR34	-122.0349	37.4263	-19.71	22.11	0.39	0.40	-0.040
MLLR	-118.1914	38.0652	-3.94	3.26	0.39	0.39	-0.035
PRSD	-122.4551	37.8053	-19.60	25.41	0.39	0.40	-0.037
A250	-119.7742	39.1015	-8.77	5.89	0.39	0.45	-0.011
F270	-112.8372	39.3166	-2.90	-0.02	0.39	0.43	0.012
MUDD	-121.9336	47.1419	0.89	2.34	0.39	0.42	-0.016
N843	-120.6678	40.4182	-7.10	4.75	0.39	0.36	0.035
PATT	-119.4323	34.9597	-21.70	19.20	0.39	0.41	-0.039
MONA	-117.7059	34.7430	-13.23	14.05	0.39	0.39	-0.019
M137	-117.2998	36.3490	-4.89	3.15	0.39	0.41	0.015
T19S	-117.5828	36.2317	-6.53	4.52	0.39	0.42	-0.015
COLU	-117.2384	37.7435	-3.62	0.81	0.39	0.40	0.014
B741	-123.4113	43.1286	-0.25	7.31	0.39	0.47	-0.065
0501	-119.6061	34.4205	-29.10	26.02	0.39	0.41	0.013
SNDS	-118.4225	39.1475	-5.74	2.31	0.39	0.40	-0.035
MCOY	-117.5962	40.1124	-4.12	0.81	0.39	0.39	-0.033

MAHH	-117.1332	38.5525	-3.45	0.32	0.39	0.41	0.023
FUNE	-116.4753	36.3974	-2.73	0.62	0.39	0.40	-0.014
FRIN	-115.6470	33.3603	-5.58	1.97	0.39	0.39	-0.033
0305	-121.2872	39.2015	-9.12	6.85	0.40	0.44	-0.028
POST	-118.0356	39.0359	-3.74	1.27	0.40	0.39	-0.022
JURU	-117.4428	34.0324	-22.77	23.14	0.40	0.40	-0.042
SPRU	-110.6154	44.5522	-0.08	-2.29	0.40	0.41	0.004
3756	-118.1433	39.5402	-5.18	0.96	0.40	0.41	-0.079
CABZ	-116.7755	33.9159	-13.11	21.61	0.40	0.41	0.020
SNPA	-118.9988	34.3879	-27.11	26.17	0.40	0.36	-0.045
BX46	-118.3107	39.2738	-4.23	2.46	0.40	0.42	0.024
VERN	-117.7257	34.1370	-24.00	21.11	0.40	0.40	-0.024
PT82	-116.9260	34.1605	-13.51	14.92	0.40	0.41	0.001
SARG	-110.6432	43.9381	-1.33	-1.09	0.40	0.43	0.096
G165	-117.2118	36.5425	-3.92	1.97	0.40	0.42	0.020
TWIN	-123.0040	44.3249	3.16	4.45	0.40	0.41	-0.035
SALI	-119.7135	34.8229	-28.07	27.98	0.40	0.42	-0.032
STOV	-117.1473	36.6064	-3.63	1.55	0.40	0.42	0.019
BLMB	-111.9508	40.7197	-1.82	-0.56	0.40	0.40	-0.009
G290	-111.2056	38.8076	-1.15	0.54	0.40	0.45	0.034
0201	-123.1930	41.8415	-2.10	6.86	0.40	0.41	0.006
SLR1	-118.2061	39.1092	-5.29	1.95	0.40	0.40	-0.036
RYN6	-117.0168	33.7366	-22.37	22.84	0.40	0.42	0.011
ELMO	-116.9910	32.2745	-28.61	29.70	0.40	0.40	-0.029
U419	-115.8896	42.4659	-2.66	-0.83	0.40	0.41	0.025
1110	-115.8879	33.1768	-14.90	16.19	0.40	0.42	-0.057
U59A	-111.1057	43.7379	-2.04	-3.43	0.40	0.41	0.004
SP12	-122.3556	37.9892	-15.77	18.28	0.40	0.40	-0.045
C093	-120.5006	41.5097	-4.22	3.56	0.40	0.39	0.033
BLU1	-118.5185	32.9268	-30.43	34.31	0.40	0.33	-0.066
K092	-111.5142	44.5983	-2.25	-4.74	0.40	0.45	-0.054
R011	-110.3898	44.8900	0.63	0.04	0.40	0.44	-0.010
LACU	-119.7139	34.4944	-30.01	30.34	0.40	0.33	-0.005
TTAP	-117.8638	34.9845	-9.92	13.34	0.40	0.41	-0.012
GS14	-117.1988	35.6146	-6.26	6.51	0.40	0.41	-0.009
R46R	-118.0694	39.2913	-4.10	-0.49	0.40	0.42	-0.027
LS35	-117.2168	34.0182	-19.82	19.37	0.40	0.44	0.064
FILO	-116.4431	31.7210	-28.85	29.60	0.40	0.40	-0.019
TURK	-121.2993	36.9000	-11.12	8.85	0.41	0.42	-0.003
ONIE	-121.0600	37.0798	-11.46	6.99	0.41	0.42	-0.007
ABER	-118.2883	36.9791	-7.68	6.55	0.41	0.43	-0.026
X137	-117.2795	36.4016	-4.66	2.19	0.41	0.43	-0.029
RM01	-116.6679	31.8718	-29.05	30.52	0.41	0.40	0.014
MRY5	-123.5523	44.5045	4.59	6.20	0.41	0.45	-0.058
DEAL	-122.3380	38.2578	-13.18	15.31	0.41	0.45	-0.031

USG7	-121.7025	37.6218	-11.05	9.65	0.41	0.43	-0.180
C260	-116.9417	39.4022	-3.46	-0.04	0.41	0.47	0.014
JT09	-116.3063	34.0108	-7.37	8.50	0.41	0.42	0.009
MILX	-120.0888	35.6059	-17.31	19.34	0.41	0.41	-0.017
I046	-115.2980	32.9673	-1.92	1.75	0.41	0.42	-0.020
H226	-120.3252	39.3176	-9.76	5.86	0.41	0.46	-0.048
0650	-118.9034	34.3999	-26.75	24.76	0.41	0.42	0.105
FRPK	-111.8516	41.0820	-0.45	-1.28	0.41	0.42	-0.013
GS16	-117.7065	35.4703	-8.05	10.15	0.41	0.42	0.003
GS13	-117.1488	35.5223	-5.56	6.75	0.41	0.42	-0.010
D280	-115.0816	39.4152	-2.78	-1.31	0.41	0.48	0.023
HIWA	-121.5600	36.8204	-29.90	32.93	0.41	0.43	0.016
LAE0	-116.5571	34.5744	-8.61	8.68	0.41	0.42	-0.008
ABRA	-112.1097	41.1109	-2.14	-0.64	0.41	0.42	-0.020
FT73	-118.1039	38.7307	-5.37	1.19	0.41	0.40	0.004
GS17	-117.5568	35.5694	-8.42	8.77	0.41	0.43	0.001
STEE	-117.5296	34.0769	-27.00	23.26	0.41	0.41	-0.063
ANDE	-122.2906	40.4195	-8.02	6.14	0.41	0.46	-0.080
GS15	-117.9611	35.4258	-9.69	9.75	0.41	0.42	-0.011
BM80	-116.9776	36.7235	-3.02	0.39	0.41	0.44	-0.007
BOR1	-115.5064	32.6645	-21.75	26.55	0.41	0.40	-0.034
CASA	-118.8967	37.6446	-8.81	-3.32	0.41	0.41	-0.016
CNDR	-113.3454	43.6187	-2.06	-0.35	0.41	0.44	0.007
B118	-113.2637	43.4959	-3.31	-0.80	0.41	0.44	0.065
BEAV	-121.8048	43.1334	-3.25	5.93	0.41	0.44	-0.094
GS01	-118.0824	35.2251	-9.71	11.47	0.41	0.43	-0.008
GS18	-117.8703	35.5838	-9.64	9.64	0.41	0.43	-0.004
GRAY	-124.0997	46.9028	10.05	8.95	0.42	0.46	-0.067
LOWE	-117.6433	40.0271	-4.18	0.28	0.42	0.41	-0.073
L166	-117.5499	36.2791	-6.77	3.76	0.42	0.45	-0.018
SARC	-117.0276	37.2743	-2.92	-0.50	0.42	0.44	0.009
INA3	-116.5446	33.9354	-10.34	18.95	0.42	0.43	0.018
MASN	-110.3300	42.7136	-0.35	-0.75	0.42	0.45	-0.033
REED	-124.1046	43.7031	4.26	8.94	0.42	0.49	-0.080
FRAN	-123.5002	46.5414	4.74	6.79	0.42	0.47	-0.024
NORD	-119.2421	34.4983	-29.43	24.05	0.42	0.43	-0.092
CASM	-120.5081	34.7940	-30.60	34.22	0.42	0.41	-0.017
GS02	-118.1005	35.4945	-9.93	9.95	0.42	0.43	-0.003
GS09	-117.8977	35.1155	-8.86	12.39	0.42	0.43	-0.006
RM02	-116.6676	31.8716	-28.85	30.66	0.42	0.41	0.023
JT07	-116.2568	34.0884	-4.80	8.32	0.42	0.43	0.006
3814	-121.9518	37.8063	-13.38	11.62	0.42	0.45	-0.019
DGA3	-121.5635	36.8610	-28.28	30.48	0.42	0.44	-0.001
EXCE	-118.5017	38.2679	-5.17	4.49	0.42	0.36	-0.046
TIGA	-120.9232	36.7944	-10.51	9.70	0.42	0.42	-0.024

RED_	-120. 9337	36. 6852	-9. 00	9. 28	0. 42	0. 42	-0. 025
2DOR	-119. 1672	37. 9302	-9. 88	9. 54	0. 42	0. 52	0. 144
HP86	-117. 6142	35. 3662	-8. 00	10. 71	0. 42	0. 44	-0. 041
HUNA	-108. 8510	45. 0383	0. 33	-1. 27	0. 42	0. 45	0. 033
SMOB	-121. 0005	36. 5373	-8. 93	8. 92	0. 42	0. 42	-0. 024
MNMT	-120. 4349	35. 9694	-9. 81	16. 95	0. 42	0. 43	-0. 039
GS12	-117. 3335	35. 4337	-6. 63	8. 22	0. 42	0. 44	-0. 011
BOUN	-111. 8180	40. 9644	0. 26	-1. 00	0. 42	0. 45	-0. 007
WEID	-121. 9949	37. 7383	-14. 42	15. 46	0. 42	0. 44	-0. 000
GS20	-117. 4007	35. 7685	-6. 10	6. 59	0. 42	0. 44	-0. 008
L589	-115. 7612	32. 9506	-22. 08	23. 74	0. 42	0. 40	-0. 052
CALL	-121. 0641	36. 6095	-12. 49	8. 93	0. 42	0. 43	-0. 029
0210	-120. 8706	41. 4302	-5. 72	3. 62	0. 42	0. 40	0. 049
DMAV	-120. 5418	34. 7261	-30. 98	33. 96	0. 42	0. 43	-0. 013
LEY_	-120. 8944	36. 4530	-9. 12	10. 32	0. 43	0. 43	-0. 026
ANTE	-121. 9188	37. 5067	-18. 20	14. 65	0. 43	0. 44	-0. 021
0209	-121. 2579	41. 6705	-4. 90	3. 27	0. 43	0. 41	0. 016
PRT1	-118. 1572	35. 0871	-11. 19	12. 80	0. 43	0. 43	-0. 039
7288	-116. 8915	35. 3312	-6. 57	7. 36	0. 43	0. 42	-0. 019
OLDW	-116. 7519	34. 3887	-10. 18	12. 11	0. 43	0. 44	-0. 007
HAUL	-122. 2842	37. 2737	-25. 12	33. 11	0. 43	0. 48	-0. 021
BUCK	-120. 5373	35. 9250	-24. 43	31. 05	0. 43	0. 43	-0. 065
SHOS	-116. 2611	36. 9434	-2. 77	0. 57	0. 43	0. 43	-0. 021
CAL1	-115. 5088	33. 1690	-5. 11	1. 36	0. 43	0. 42	-0. 051
MONE	-115. 0749	32. 5586	-6. 10	0. 43	0. 43	0. 43	-0. 005
PS98	-119. 0808	37. 6333	-7. 63	8. 91	0. 43	0. 44	-0. 053
SFEL	-114. 8068	30. 9305	-29. 94	27. 48	0. 43	0. 41	-0. 034
0502	-120. 3455	34. 5310	-30. 54	32. 58	0. 43	0. 45	0. 052
HOWE	-112. 5443	41. 7942	-2. 50	-2. 74	0. 43	0. 44	0. 005
FIRE	-121. 9378	37. 0469	-23. 80	30. 96	0. 43	0. 45	-0. 044
MOHO	-118. 2597	38. 2796	-4. 39	3. 26	0. 43	0. 41	-0. 166
SNT0	-117. 8835	34. 0425	-25. 09	23. 12	0. 43	0. 44	-0. 032
T124	-115. 5002	32. 7380	-19. 73	20. 07	0. 43	0. 43	-0. 020
OA37	-113. 2017	43. 5639	-2. 89	-1. 92	0. 43	0. 47	0. 018
DILL	-112. 6146	45. 2317	-0. 92	-0. 88	0. 43	0. 46	0. 038
MILS	-121. 8876	37. 5403	-14. 33	16. 28	0. 43	0. 49	-0. 002
MEER	-110. 8192	44. 4540	-0. 72	-2. 97	0. 43	0. 48	-0. 024
BAL2	-124. 0656	44. 8303	7. 56	8. 36	0. 43	0. 48	-0. 079
GS07	-117. 1785	36. 0348	-5. 02	4. 01	0. 43	0. 45	-0. 013
PACH	-121. 2878	37. 0077	-11. 06	10. 04	0. 44	0. 45	-0. 006
BITT	-120. 9819	36. 4167	-9. 08	15. 13	0. 44	0. 45	-0. 050
B410	-117. 2208	38. 0606	-3. 30	0. 33	0. 44	0. 47	0. 018
16EM	-116. 4655	42. 6564	-2. 22	-0. 53	0. 44	0. 45	0. 026
1113	-115. 9639	33. 6772	-8. 30	8. 47	0. 44	0. 42	-0. 019
BENN	-112. 2351	41. 0419	-1. 93	-1. 06	0. 44	0. 45	-0. 019

WIIG	-118.7428	34.5674	-24.98	16.74	0.44	0.45	-0.014
PNER	-116.8484	35.3891	-6.71	5.70	0.44	0.44	-0.011
PONS	-124.1165	44.1700	5.61	8.24	0.44	0.48	-0.080
0208	-122.2750	41.5321	-4.79	5.13	0.44	0.49	-0.070
KIMB	-111.5384	40.7410	-0.36	-0.78	0.44	0.45	-0.010
NRID	-118.5552	34.2328	-26.04	27.42	0.44	0.45	-0.012
GS25	-117.2891	35.9132	-5.58	4.72	0.44	0.45	-0.013
LAE4	-116.3292	34.7341	-6.00	3.94	0.44	0.45	0.004
ALTA	-121.7473	42.2091	-3.74	4.75	0.44	0.51	-0.138
SAEC	-118.5615	34.6931	-19.53	17.59	0.44	0.44	-0.016
CP13	-114.9337	32.1431	-7.92	7.68	0.44	0.45	-0.025
CVM1	-120.5799	36.4735	-9.38	9.67	0.44	0.45	-0.028
0211	-120.0189	41.5515	-4.08	2.59	0.44	0.45	0.062
PEAR	-117.9224	34.5121	-18.05	17.27	0.44	0.44	-0.014
BRSH	-118.4049	33.4070	-29.34	32.80	0.44	0.37	-0.010
SAN2	-117.5042	34.2115	-19.67	20.22	0.44	0.45	-0.032
CICE	-116.6674	31.8713	-29.19	29.40	0.44	0.44	-0.011
I016	-115.5184	32.7984	-14.10	20.15	0.44	0.46	-0.010
JUST	-122.8769	42.3226	-1.97	6.28	0.45	0.55	-0.016
LOOK	-116.5741	33.5533	-18.56	20.77	0.45	0.45	-0.022
I013	-115.3630	32.8114	-2.21	4.50	0.45	0.47	-0.044
0819	-117.5474	33.8842	-24.63	24.50	0.45	0.45	-0.047
BUTT	-112.5176	45.9679	-0.06	-1.02	0.45	0.50	-0.011
0204	-121.4615	41.9458	-3.46	4.80	0.45	0.45	0.063
JUNI	-119.9333	42.9299	-2.09	1.97	0.45	0.42	-0.064
GRLZ	-116.5965	35.4531	-5.70	3.91	0.45	0.45	-0.004
1114	-115.2431	33.6807	-3.14	1.14	0.45	0.45	-0.026
0202	-122.5913	41.9558	-2.74	5.94	0.45	0.46	0.026
PIN1	-116.4582	33.6122	-14.94	17.20	0.45	0.40	-0.053
GP14	-124.1782	47.1143	12.78	11.25	0.45	0.51	-0.035
U956	-121.0142	38.0360	-10.80	6.33	0.45	0.48	-0.033
CRVO	-120.4808	36.4455	-9.18	10.45	0.45	0.46	-0.026
CHAL	-118.3856	37.5277	-5.04	4.92	0.45	0.46	-0.010
FLSH	-117.0167	34.8240	-9.84	10.29	0.45	0.45	-0.006
OLDD	-116.6979	34.3905	-9.90	11.49	0.45	0.47	-0.007
PMCN	-116.5170	33.5710	-17.10	19.23	0.45	0.45	0.001
FI18	-115.2730	32.5883	-11.58	10.50	0.45	0.46	-0.017
1582	-121.9190	37.5067	-14.89	16.43	0.45	0.49	-0.024
SPA1	-122.3562	37.9899	-15.52	18.15	0.45	0.49	-0.011
0219	-121.4304	40.6738	-8.00	3.98	0.45	0.45	-0.023
MONS	-111.5175	41.4219	0.08	-1.92	0.45	0.46	0.009
HAMI	-124.0650	44.6016	7.06	8.12	0.46	0.53	-0.068
V120	-120.3177	39.3172	-8.95	6.32	0.46	0.50	-0.032
SWIN	-118.9456	37.6249	-9.45	8.21	0.46	0.50	-0.036
TABI	-118.5023	37.5011	-6.17	5.65	0.46	0.47	-0.010

DANA	-117.7093	33.4642	-28.17	28.86	0.46	0.46	-0.037
NASA	-116.5706	35.3231	-5.59	3.12	0.46	0.46	-0.006
YUCC	-116.4850	36.9402	-3.15	0.45	0.46	0.46	-0.015
RICH	-116.4689	34.2641	-5.90	13.27	0.46	0.47	-0.004
ELYA	-114.8427	39.2932	-3.56	-0.46	0.46	0.47	-0.016
0414	-122.8121	38.6709	-12.96	22.26	0.46	0.49	-0.066
0616	-119.2272	35.2668	-12.73	10.41	0.46	0.48	-0.052
MARE	-122.3039	37.9350	-18.74	22.20	0.46	0.49	0.023
OAKD	-117.5980	33.8473	-23.81	25.44	0.46	0.45	-0.060
CJCK	-116.4551	35.5146	-3.73	2.11	0.46	0.46	-0.004
0700	-116.4228	32.8918	-28.34	26.68	0.46	0.39	-0.027
RK59	-116.2629	36.7229	-1.62	0.25	0.46	0.47	-0.011
NESK	-123.9662	45.1343	7.30	8.13	0.46	0.53	-0.068
SNRI	-120.1057	33.9509	-30.01	35.90	0.46	0.36	0.065
SPR2	-116.7533	37.0479	-2.31	0.03	0.46	0.47	-0.017
AWES	-122.0025	37.5920	-19.57	21.45	0.46	0.48	-0.080
E143	-123.7905	39.6691	-24.27	24.08	0.46	0.50	-0.018
MPNS	-119.1454	34.8128	-22.29	20.44	0.46	0.46	-0.034
WYMN	-118.0011	37.4124	-5.54	3.21	0.46	0.47	-0.019
GS05	-117.7353	36.0473	-18.57	6.37	0.46	0.48	-0.008
MILL	-117.0106	34.0907	-14.28	16.99	0.46	0.48	-0.001
SPRN	-116.6686	35.6704	-4.54	3.58	0.46	0.47	0.002
GLDH	-122.7867	47.5486	5.48	4.00	0.46	0.49	-0.061
LAE3	-116.4868	34.6179	-8.49	6.98	0.47	0.46	-0.016
SUNS	-121.9402	37.6430	-15.14	15.52	0.47	0.53	0.038
GRSW	-120.7290	36.5034	-9.51	9.75	0.47	0.50	-0.012
POSO	-120.1127	35.5204	-21.95	24.10	0.47	0.45	-0.007
ESEX	-113.6388	48.3260	0.23	-0.63	0.47	0.49	-0.006
GRA2	-111.8182	40.5731	-0.97	-0.42	0.47	0.51	-0.002
PYRA	-120.0785	35.8551	-11.90	13.89	0.47	0.48	0.008
LIMA	-117.9815	37.2389	-5.83	3.07	0.47	0.48	-0.015
BRIC	-116.6352	36.9590	-3.00	-0.83	0.47	0.48	-0.019
S436	-116.8021	32.8444	-27.13	26.96	0.47	0.50	-0.089
SIDE	-112.1483	41.7950	-2.31	-0.73	0.47	0.49	-0.025
MULL	-121.7990	36.7491	-29.70	35.02	0.47	0.48	0.000
FORK	-117.8843	36.0625	-7.94	5.21	0.47	0.51	-0.003
1202	-117.6805	33.4693	-27.80	27.71	0.47	0.47	-0.045
0214	-121.4035	41.0509	-6.70	4.52	0.47	0.40	-0.073
CANV	-118.7991	38.1647	-5.94	6.85	0.47	0.48	-0.006
REST	-111.5920	44.9018	-0.53	-2.31	0.47	0.54	-0.018
WILS	-120.5212	47.0120	1.23	0.64	0.47	0.54	0.001
RKSP	-118.6703	35.1381	-14.16	10.71	0.47	0.47	-0.024
GABG	-117.4545	38.3444	-4.09	1.15	0.47	0.49	-0.011
GRV1	-116.4848	35.4188	-4.07	2.47	0.47	0.47	-0.007
MEAD	-116.8278	34.1782	-11.66	14.77	0.47	0.48	0.064

WIDE	-116.4063	33.9314	-7.83	13.79	0.47	0.45	-0.043
SD03	-117.1588	33.3318	-23.88	31.13	0.47	0.47	-0.042
CROS	-121.5184	36.8227	-29.29	35.43	0.47	0.50	-0.009
GS03	-118.0354	35.6678	-8.65	8.82	0.47	0.51	0.024
MSLL	-122.1513	37.7105	-18.55	21.53	0.47	0.51	-0.017
P300	-121.7203	37.9541	-11.02	8.40	0.47	0.50	-0.019
POTA	-119.2822	44.9746	-0.97	0.74	0.47	0.51	-0.005
GLOC	-115.2465	32.8396	-2.38	-4.80	0.48	0.47	-0.059
BEND	-122.0349	37.4263	-19.60	22.63	0.48	0.49	-0.035
GS24	-117.4822	35.9250	-7.10	5.61	0.48	0.49	-0.011
FAAS	-116.1193	45.9421	-0.08	-0.58	0.48	0.51	-0.031
1S2E	-111.7167	40.7522	-1.84	-0.54	0.48	0.53	-0.034
MUMB	-122.5326	41.1844	-5.72	5.80	0.48	0.50	-0.020
SANM	-121.9489	44.4340	1.28	2.87	0.48	0.53	-0.033
MLUN	-117.2920	34.2814	-17.42	17.43	0.48	0.50	-0.005
LK42	-123.6702	48.1504	5.82	3.05	0.48	0.56	-0.016
FELP	-121.3988	36.9613	-13.12	11.19	0.48	0.53	-0.012
I026	-115.5646	33.2677	-6.34	0.78	0.48	0.50	0.023
ONYX	-116.7095	34.1926	-9.43	16.13	0.48	0.48	-0.022
A479	-123.5331	46.9908	6.00	4.97	0.48	0.59	-0.062
COLO	-119.9771	35.9616	-8.86	10.63	0.48	0.50	-0.007
DEER	-118.5078	35.0858	-11.08	14.07	0.48	0.48	-0.009
LAW2	-116.6237	34.5267	-8.88	9.98	0.48	0.52	-0.009
CRTR	-116.4661	35.2185	-6.27	2.32	0.48	0.48	-0.008
JUNT	-116.4165	36.3044	-2.51	0.03	0.48	0.52	0.016
WEST	-112.0625	40.5650	-3.34	0.80	0.48	0.48	-0.024
PTRY	-122.9366	38.1035	-24.37	34.05	0.48	0.49	-0.017
HOPP	-118.8655	34.4777	-24.25	23.80	0.48	0.40	-0.067
JACK	-117.5403	36.5317	-4.75	3.86	0.48	0.52	-0.015
LAZY	-116.5139	34.3439	-8.87	12.06	0.48	0.48	-0.035
SILV	-116.2913	35.3970	-2.25	-0.82	0.48	0.50	0.009
S150	-115.1279	32.4183	-26.91	7.49	0.48	0.50	0.007
CHLN	-121.1955	36.4476	-27.33	32.95	0.48	0.49	-0.054
DBAR	-117.7955	34.0032	-24.38	23.48	0.48	0.47	-0.007
TORO	-116.4258	33.5236	-17.29	17.61	0.48	0.48	-0.034
WELX	-111.9086	41.6505	-2.27	0.08	0.48	0.50	-0.058
AWIS	-122.0016	37.5929	-15.49	16.14	0.49	0.53	-0.030
AIR1	-118.7433	34.7509	-21.89	13.95	0.49	0.50	-0.049
0203	-121.9245	41.9536	-3.56	3.69	0.49	0.48	0.034
BARE	-116.6746	36.8430	-3.33	-0.16	0.49	0.51	-0.031
3S3E	-111.6210	40.5842	-1.01	-0.98	0.49	0.49	-0.039
W367	-110.4568	44.6421	0.08	-1.29	0.49	0.55	-0.041
0510	-120.8161	36.1883	-28.01	31.12	0.49	0.48	0.002
MDDF	-120.5208	35.9202	-27.38	33.31	0.49	0.51	-0.021
DMAS	-117.8053	34.1558	-23.69	22.14	0.49	0.47	-0.002

SDG6	-116. 7027	33. 3819	-23. 65	24. 94	0. 49	0. 52	-0. 048
FARW	-123. 3765	47. 0146	4. 77	5. 16	0. 49	0. 57	-0. 026
0216	-120. 0003	41. 1622	-5. 47	3. 26	0. 49	0. 39	0. 013
TRN1	-117. 3275	35. 8127	-5. 40	5. 75	0. 49	0. 50	-0. 023
I018	-115. 6464	32. 8000	-18. 98	25. 27	0. 49	0. 52	0. 043
ICEB	-122. 8847	48. 4199	3. 74	2. 72	0. 49	0. 56	0. 005
GS27	-117. 4538	36. 0529	-5. 55	4. 46	0. 49	0. 52	-0. 007
JT06	-116. 3287	33. 9165	-9. 18	11. 16	0. 49	0. 49	0. 029
X95X	-113. 3351	41. 5647	-2. 63	-1. 24	0. 49	0. 52	0. 012
LAW3	-116. 6690	34. 5015	-9. 74	10. 05	0. 49	0. 53	0. 005
SD21	-116. 6192	32. 8239	-25. 82	26. 80	0. 49	0. 50	-0. 034
SOLE	-118. 1889	34. 9825	-10. 94	13. 42	0. 49	0. 50	-0. 011
JOH1	-124. 0941	42. 8151	1. 62	8. 55	0. 49	0. 53	-0. 049
02KM	-121. 7404	40. 8747	-7. 11	4. 68	0. 49	0. 56	-0. 018
LL92	-116. 9769	40. 3591	-3. 17	0. 35	0. 49	0. 51	0. 015
LEAC	-116. 8910	35. 5348	-4. 62	5. 20	0. 49	0. 49	-0. 007
ROSS	-116. 5387	36. 6969	-3. 01	-0. 44	0. 49	0. 53	-0. 030
WEL2	-116. 3295	36. 6672	-3. 69	0. 07	0. 49	0. 54	-0. 034
01QB	-124. 1994	40. 7446	3. 00	18. 54	0. 50	0. 56	-0. 103
MUNS	-119. 3005	34. 6358	-26. 41	24. 06	0. 50	0. 44	-0. 053
DARK	-118. 3620	45. 2735	-1. 72	0. 19	0. 50	0. 57	-0. 023
SOAM	-123. 5499	44. 0385	3. 19	6. 17	0. 50	0. 56	-0. 099
1108	-116. 6933	33. 2338	-25. 80	25. 94	0. 50	0. 54	-0. 103
MEAN	-116. 5497	34. 4048	-9. 83	14. 47	0. 50	0. 51	-0. 051
KERR	-112. 1328	40. 7081	-1. 78	-0. 55	0. 50	0. 52	-0. 045
NWS1	-108. 4783	43. 0661	-0. 03	-0. 36	0. 50	0. 53	0. 013
GS22	-117. 9695	35. 8453	-8. 19	9. 40	0. 50	0. 54	-0. 001
DEAD	-116. 7895	34. 2338	-9. 17	11. 84	0. 50	0. 49	-0. 028
LOMO	-121. 6417	39. 2212	-10. 92	6. 02	0. 50	0. 56	-0. 007
HECT	-116. 4207	34. 7850	-5. 91	3. 26	0. 50	0. 49	-0. 032
SPEC	-116. 1806	36. 6555	-1. 70	0. 46	0. 50	0. 51	-0. 012
CAN5	-116. 1776	36. 7761	-2. 73	0. 13	0. 50	0. 50	-0. 011
04HG	-122. 3560	37. 9912	-15. 76	16. 92	0. 50	0. 55	-0. 046
PIHA	-112. 5907	42. 9131	-2. 94	-2. 36	0. 50	0. 52	0. 005
HOWA	-122. 8797	44. 9900	3. 17	5. 36	0. 50	0. 54	-0. 123
BAIR	-112. 0641	41. 5393	-2. 49	-0. 93	0. 50	0. 58	0. 037
1107	-117. 2770	33. 1295	-28. 22	29. 31	0. 50	0. 53	-0. 107
SHOG	-114. 4165	42. 9359	-4. 50	0. 56	0. 50	0. 53	0. 018
NHD4	-124. 0759	46. 3004	9. 85	8. 73	0. 51	0. 58	-0. 070
DEVS	-119. 7844	34. 0291	-30. 37	35. 10	0. 51	0. 42	0. 138
QUAR	-117. 6355	34. 1324	-23. 47	22. 53	0. 51	0. 51	-0. 015
BM25	-117. 9440	36. 0446	-9. 95	9. 45	0. 51	0. 55	0. 005
PLMR	-117. 8214	45. 7691	-0. 69	0. 20	0. 51	0. 58	-0. 015
SUNP	-117. 6894	34. 2163	-22. 60	21. 24	0. 51	0. 50	-0. 005
FI27	-115. 1859	32. 5126	-12. 68	-3. 83	0. 51	0. 49	-0. 017

GS11	-117. 5848	35. 4288	-7. 20	9. 26	0. 51	0. 55	0. 021
LOLA	-118. 5607	40. 0716	-5. 32	1. 64	0. 51	0. 52	-0. 001
CRAV	-116. 7010	33. 5427	-21. 18	23. 09	0. 51	0. 51	-0. 015
TIMB	-116. 4610	37. 0877	-2. 06	0. 45	0. 51	0. 51	-0. 005
R424	-113. 1412	48. 4790	0. 75	-0. 20	0. 51	0. 62	0. 035
NELN	-116. 6948	35. 3948	-4. 97	2. 81	0. 51	0. 51	-0. 006
PASS	-116. 0809	36. 9413	-2. 16	0. 32	0. 51	0. 52	-0. 012
F279	-118. 1513	39. 2274	-2. 71	1. 09	0. 51	0. 52	-0. 008
GP17	-121. 6253	47. 1375	2. 11	1. 77	0. 51	0. 61	0. 153
CVR3	-123. 2482	39. 7711	-17. 25	10. 34	0. 51	0. 58	0. 055
1001	-120. 7431	37. 0547	-10. 01	8. 39	0. 51	0. 53	-0. 063
POUL	-122. 6297	47. 7297	4. 40	2. 40	0. 51	0. 56	-0. 112
SD15	-122. 4692	37. 8073	-20. 09	25. 11	0. 51	0. 57	-0. 002
BULL	-118. 5534	34. 8183	-15. 28	13. 81	0. 51	0. 55	-0. 018
SI01	-117. 2523	32. 8678	-27. 35	27. 67	0. 51	0. 45	-0. 048
6386	-116. 7836	33. 9163	-14. 29	21. 89	0. 51	0. 53	-0. 004
WILI	-112. 0068	40. 4353	-3. 36	-0. 73	0. 51	0. 52	-0. 024
AGAL	-117. 6048	34. 1719	-22. 25	22. 57	0. 52	0. 55	-0. 094
BOTR	-116. 5330	33. 7758	-13. 74	17. 42	0. 52	0. 53	0. 009
BARS	-116. 9393	35. 0908	-9. 04	7. 65	0. 52	0. 52	-0. 001
JT03	-116. 1333	34. 0265	-5. 65	6. 27	0. 52	0. 53	-0. 002
LIMP	-117. 5489	33. 9752	-23. 86	24. 56	0. 52	0. 51	-0. 121
ELGN	-117. 9174	45. 5333	-0. 10	0. 63	0. 52	0. 61	0. 021
ENS1	-116. 6674	31. 8713	-29. 47	29. 12	0. 52	0. 50	0. 004
1362	-115. 5184	32. 7965	-14. 64	20. 84	0. 52	0. 55	-0. 062
A290	-119. 1935	39. 4291	-6. 31	3. 91	0. 52	0. 58	0. 000
ROND	-117. 2395	46. 0455	0. 28	0. 11	0. 52	0. 56	-0. 001
CUSG	-117. 0361	40. 0022	-2. 14	-1. 07	0. 52	0. 55	0. 004
B290	-117. 8592	39. 2838	-4. 22	-0. 12	0. 52	0. 58	-0. 019
LANF	-116. 6039	35. 1831	-5. 39	3. 57	0. 52	0. 53	0. 003
ALSA	-115. 6112	33. 1964	-8. 71	-0. 75	0. 52	0. 54	-0. 013
C616	-120. 0006	35. 5745	-16. 07	17. 91	0. 52	0. 54	-0. 037
PSEB	-117. 6885	34. 1213	-23. 75	22. 13	0. 52	0. 53	-0. 026
JT01	-116. 0338	34. 0744	-3. 23	4. 64	0. 52	0. 53	0. 001
MORR	-113. 0296	44. 6029	1. 06	0. 42	0. 52	0. 57	0. 008
SNPR	-122. 4161	37. 9588	-19. 35	22. 97	0. 52	0. 54	-0. 018
LIZZ	-118. 2273	38. 5320	-4. 11	3. 28	0. 52	0. 54	-0. 015
FLOO	-118. 0431	33. 7738	-27. 65	27. 47	0. 52	0. 53	-0. 046
SPJ1	-118. 3525	33. 7968	-25. 41	31. 30	0. 53	0. 49	-0. 018
S301	-117. 5652	33. 3753	-28. 23	28. 69	0. 53	0. 53	-0. 052
CJGG	-116. 6412	31. 8680	-29. 84	32. 16	0. 53	0. 52	-0. 005
X423	-114. 3070	41. 1425	-3. 73	-1. 18	0. 53	0. 60	0. 075
F291	-112. 4116	39. 2064	-3. 18	-0. 63	0. 53	0. 57	0. 021
HBLF	-111. 8042	40. 6534	-2. 68	-0. 39	0. 53	0. 55	-0. 010
RAIL	-121. 4624	36. 9088	-17. 98	19. 23	0. 53	0. 56	-0. 008

Y382	-114. 5847	47. 8332	0. 05	-0. 12	0. 53	0. 57	-0. 020
CUR1	-112. 0033	41. 7567	-2. 15	-1. 70	0. 53	0. 56	-0. 080
04GG	-122. 2471	37. 8786	-16. 12	16. 88	0. 53	0. 55	-0. 041
MONU	-112. 6009	44. 8970	-1. 68	-0. 17	0. 53	0. 58	-0. 003
B270	-118. 1728	39. 2861	-3. 99	1. 83	0. 53	0. 58	0. 005
MOJM	-116. 8882	35. 3315	-6. 21	5. 94	0. 53	0. 37	-0. 069
MTID	-115. 1282	47. 0669	-0. 64	0. 55	0. 53	0. 63	0. 028
LANG	-122. 9556	44. 5660	2. 85	4. 74	0. 53	0. 63	-0. 057
HOWY	-116. 7176	33. 5497	-21. 26	23. 82	0. 53	0. 55	-0. 048
DBM1	-118. 4868	35. 0333	-14. 33	11. 89	0. 53	0. 49	-0. 013
BLHL	-120. 8317	35. 3587	-29. 00	36. 27	0. 53	0. 41	-0. 009
FRY_	-116. 7190	34. 5012	-14. 40	14. 43	0. 53	0. 61	-0. 149
ELKF	-117. 7022	45. 9370	-0. 79	-0. 25	0. 53	0. 61	-0. 018
G100	-112. 1475	39. 6007	-2. 43	1. 41	0. 53	0. 56	-0. 014
CUYA	-119. 4890	34. 9278	-23. 64	21. 51	0. 54	0. 57	-0. 064
LAW4	-116. 6652	34. 4538	-9. 32	10. 77	0. 54	0. 59	-0. 001
LAE2	-116. 5221	34. 5889	-8. 01	7. 14	0. 54	0. 56	0. 011
02FS	-121. 0414	40. 3034	-7. 90	6. 72	0. 54	0. 58	-0. 007
SMIT	-118. 4094	35. 1336	-10. 76	11. 71	0. 54	0. 54	-0. 008
CAMP	-117. 7663	34. 2217	-23. 68	20. 86	0. 54	0. 52	-0. 006
SAN1	-117. 5351	33. 7088	-25. 67	25. 40	0. 54	0. 53	-0. 028
01KD	-123. 7945	40. 0942	-15. 80	16. 91	0. 54	0. 58	-0. 037
HLR1	-122. 2840	37. 2736	-25. 52	33. 49	0. 54	0. 59	-0. 093
GARS	-122. 0113	37. 6454	-15. 73	16. 50	0. 54	0. 56	0. 052
TIGR	-121. 9851	47. 5086	2. 23	2. 00	0. 54	0. 53	-0. 051
OROF	-116. 2815	46. 4548	-0. 03	0. 12	0. 54	0. 67	0. 015
JT08	-116. 1493	34. 1079	-3. 80	6. 39	0. 54	0. 55	0. 000
ORIE	-115. 4064	32. 9168	-3. 21	3. 29	0. 54	0. 53	-0. 022
SIMM	-120. 0035	35. 3512	-22. 30	24. 26	0. 54	0. 54	-0. 024
F17G	-117. 2536	32. 7041	-27. 81	28. 95	0. 54	0. 54	-0. 000
R415	-115. 7795	43. 1812	-3. 22	-1. 45	0. 54	0. 57	0. 031
SMOK	-119. 6496	40. 6218	-5. 89	4. 03	0. 54	0. 57	0. 008
H348	-114. 1293	41. 2957	-3. 26	-1. 26	0. 54	0. 61	0. 080
INYO	-117. 8118	35. 6474	-10. 30	10. 40	0. 54	0. 56	-0. 028
COLL	-115. 5025	32. 8269	-14. 57	18. 50	0. 54	0. 53	-0. 028
LEWG	-122. 6207	47. 0942	3. 19	5. 83	0. 54	0. 65	0. 003
Z558	-119. 8435	35. 3335	-20. 29	20. 17	0. 54	0. 62	0. 044
G407	-117. 2524	45. 3491	-1. 04	0. 64	0. 54	0. 64	0. 022
SWAN	-113. 9890	47. 9905	0. 25	0. 14	0. 54	0. 63	-0. 004
SWET	-112. 2605	45. 0608	-1. 00	-0. 15	0. 54	0. 60	0. 019
HOLI	-111. 7876	40. 6272	-2. 20	-1. 04	0. 54	0. 57	-0. 011
SPA6	-122. 3560	37. 9890	-18. 13	23. 00	0. 54	0. 60	-0. 050
SCLA	-119. 0392	34. 3257	-29. 17	28. 87	0. 54	0. 50	-0. 045
B210	-118. 8674	39. 4934	-5. 78	2. 66	0. 54	0. 60	-0. 005
Z25X	-117. 6917	38. 7732	-3. 82	-0. 08	0. 54	0. 59	-0. 006

JT02	-116.0777	34.0246	-4.96	5.10	0.54	0.55	-0.001
ELBE	-111.9500	39.9519	-4.11	-0.76	0.54	0.56	-0.043
C253	-118.5890	46.9729	-0.52	0.09	0.54	0.62	-0.000
DONK	-113.6300	44.2137	-2.12	0.89	0.54	0.58	0.004
CH33	-118.6409	34.2569	-28.20	23.30	0.55	0.55	-0.002
GLSN	-118.1848	34.3869	-24.45	20.95	0.55	0.57	-0.009
VARN	-115.9139	33.5033	-12.44	6.73	0.55	0.54	-0.019
LTEJ	-118.8027	34.8005	-19.19	16.30	0.55	0.55	0.003
TUNA	-118.5955	34.0630	-26.21	29.71	0.55	0.57	-0.024
OP25	-123.9243	46.9722	9.36	6.58	0.55	0.62	-0.029
CNWF	-119.1753	38.0843	-8.88	9.84	0.55	0.58	-0.004
0112	-123.7895	41.9931	0.40	8.46	0.55	0.51	0.043
6841	-123.7020	38.9107	-25.26	33.20	0.55	0.66	0.064
LUCK	-118.7659	38.4201	-6.47	6.24	0.55	0.58	-0.004
BNTA	-117.4666	39.0066	-2.90	0.58	0.55	0.57	0.005
WDW1	-117.2542	32.7006	-27.85	29.08	0.55	0.56	-0.010
EBAS	-119.2977	45.7715	0.12	0.47	0.55	0.59	-0.020
WILD	-118.3710	40.0154	-5.43	5.06	0.55	0.60	0.022
STG2	-117.2488	32.6966	-28.35	28.75	0.55	0.56	-0.009
VA01	-116.5579	32.2447	-27.63	27.88	0.55	0.56	0.009
0114	-116.4117	33.1311	-24.98	24.45	0.55	0.56	-0.007
JT05	-116.1821	34.0249	-6.05	7.55	0.55	0.56	-0.002
DIVI	-118.5537	34.1023	-27.87	29.79	0.55	0.55	-0.032
VACA	-121.9590	38.3752	-8.76	7.33	0.55	0.57	-0.083
STG1	-117.2491	32.6973	-28.58	29.82	0.55	0.56	-0.013
PALA	-122.1666	37.4444	-21.07	24.57	0.55	0.55	-0.049
VASO	-121.9662	37.2472	-20.19	24.53	0.55	0.60	-0.024
W304	-119.1233	34.3058	-27.16	27.76	0.55	0.57	-0.012
VERS	-117.3244	33.9677	-22.02	22.72	0.55	0.57	0.011
ANZC	-116.6306	33.5578	-18.84	21.82	0.55	0.59	-0.004
T15S	-116.4026	36.6414	-2.16	-0.03	0.55	0.59	-0.021
SM06	-115.8238	31.6384	-28.25	29.41	0.55	0.54	-0.006
I014	-115.4064	32.8063	-4.20	7.01	0.55	0.58	0.010
TOME	-116.6800	33.6190	-19.28	19.78	0.55	0.58	-0.014
BCRK	-116.3645	45.4931	-0.31	-0.53	0.55	0.65	-0.009
AWOS	-122.0021	37.5930	-16.16	16.16	0.56	0.61	-0.055
RAIN	-117.2075	34.9748	-8.23	10.98	0.56	0.55	0.007
PINY	-116.4588	33.6092	-16.99	16.13	0.56	0.48	-0.075
S100	-115.1283	32.4187	-24.74	6.96	0.56	0.57	-0.015
EZEL	-123.1631	44.0786	2.70	5.48	0.56	0.66	-0.111
RUST	-122.3481	42.6193	-1.68	4.10	0.56	0.53	-0.228
BAMT	-118.9013	37.7839	-6.33	6.14	0.56	0.57	-0.022
8252	-116.2499	33.8858	-7.87	10.84	0.56	0.57	0.006
JT04	-116.1638	33.9729	-6.71	7.86	0.56	0.57	-0.000
DRYX	-121.0858	44.2105	1.27	6.48	0.56	0.66	-0.040

BRUS	-119. 2274	34. 8906	-19. 71	20. 91	0. 56	0. 59	-0. 055
POLE	-111. 5379	40. 0275	-2. 17	-1. 97	0. 56	0. 57	-0. 043
BORA	-118. 4630	39. 3284	-3. 60	2. 30	0. 56	0. 57	0. 004
IUTW	-111. 0468	42. 0016	-1. 11	-1. 71	0. 56	0. 57	0. 053
ERDA	-112. 2525	40. 6347	-2. 06	-0. 37	0. 56	0. 63	-0. 013
0609	-119. 2878	36. 2893	-11. 37	9. 68	0. 56	0. 59	0. 039
AURO	-118. 9199	38. 3283	-6. 55	6. 75	0. 56	0. 60	-0. 002
J700	-117. 2746	35. 3411	-7. 75	9. 40	0. 56	0. 58	-0. 003
SOAP	-116. 9808	34. 9039	-9. 60	8. 23	0. 56	0. 55	-0. 033
1109	-116. 2470	33. 1598	-22. 37	23. 38	0. 56	0. 58	-0. 015
LS55	-117. 1391	33. 9466	-19. 84	18. 74	0. 56	0. 61	0. 030
TRGO	-119. 1261	40. 7653	-5. 59	3. 96	0. 56	0. 61	-0. 006
ECRK	-118. 0550	34. 2249	-25. 38	22. 31	0. 56	0. 49	-0. 079
TBLM	-116. 5893	33. 5270	-19. 71	21. 88	0. 56	0. 58	-0. 044
OH64	-111. 9494	40. 1617	-3. 88	-0. 71	0. 56	0. 60	-0. 034
HUSG	-120. 5030	40. 6300	-5. 99	5. 42	0. 56	0. 62	0. 001
0618	-118. 8681	34. 8252	-19. 59	17. 64	0. 56	0. 60	-0. 023
WHEC	-118. 7429	34. 5675	-24. 08	19. 16	0. 56	0. 57	0. 011
TROP	-118. 2060	34. 9920	-10. 44	12. 44	0. 56	0. 60	0. 021
B280	-118. 0166	39. 2748	-4. 12	0. 47	0. 56	0. 63	-0. 008
OPEN	-116. 6492	33. 5992	-17. 84	20. 61	0. 56	0. 59	0. 008
1103	-115. 8832	32. 6747	-24. 68	26. 65	0. 56	0. 58	-0. 009
SIPH	-115. 6775	33. 4270	-5. 54	2. 49	0. 56	0. 58	0. 014
A047	-109. 5707	43. 5109	-0. 24	-0. 36	0. 56	0. 54	0. 060
TUPP	-118. 8917	37. 6777	-4. 86	7. 38	0. 56	0. 58	-0. 009
VIGR	-117. 5366	43. 8789	-1. 74	-0. 88	0. 56	0. 67	0. 011
IDT2	-116. 9957	46. 4282	-0. 21	0. 13	0. 56	0. 69	0. 043
A270	-119. 5503	39. 2822	-6. 65	5. 27	0. 56	0. 62	-0. 024
MERC	-120. 0599	35. 4827	-21. 72	23. 55	0. 57	0. 58	-0. 025
MAY3	-115. 2426	31. 9867	-34. 78	34. 92	0. 57	0. 57	0. 009
WEIS	-108. 6011	42. 6507	-2. 76	-2. 16	0. 57	0. 61	0. 017
SPA5	-122. 3561	37. 9889	-18. 20	23. 15	0. 57	0. 62	-0. 057
ANAT	-117. 1228	46. 1479	-0. 16	-0. 35	0. 57	0. 70	0. 047
G078	-116. 6390	33. 5721	-18. 74	18. 53	0. 57	0. 63	-0. 023
PHIK	-114. 1957	43. 8698	-2. 35	0. 64	0. 57	0. 62	-0. 005
MUHA	-112. 0225	40. 7267	-3. 04	-0. 94	0. 57	0. 65	-0. 010
BORD	-111. 0473	42. 1948	-1. 83	-1. 18	0. 57	0. 60	0. 004
GAFF	-123. 0560	38. 3190	-22. 57	31. 17	0. 57	0. 58	-0. 013
PRES	-122. 9245	46. 0401	2. 66	5. 90	0. 57	0. 62	-0. 044
ODAM	-121. 9727	37. 1803	-21. 91	26. 25	0. 57	0. 58	-0. 007
G101	-112. 1510	39. 6016	-3. 95	-1. 24	0. 57	0. 59	0. 002
DAYZ	-117. 5378	34. 1725	-21. 82	22. 48	0. 57	0. 57	-0. 008
JTRE	-115. 7641	33. 8341	-4. 61	2. 37	0. 57	0. 56	0. 001
CP12	-114. 9805	32. 0977	-23. 19	18. 97	0. 57	0. 55	0. 011
GFLD	-117. 3590	37. 8228	-2. 88	1. 72	0. 57	0. 58	0. 001

DESO	-115.4004	33.7151	-3.12	1.75	0.57	0.55	-0.070
W67R	-120.3563	42.1891	-4.12	4.46	0.57	0.52	-0.066
NORC	-117.5610	33.9344	-23.33	25.71	0.57	0.60	-0.018
Y27X	-116.4422	44.7521	-0.36	0.11	0.57	0.68	0.010
07FI	-118.1362	34.3794	-23.79	20.88	0.57	0.62	-0.082
WLR3	-117.1921	35.6208	-6.91	6.95	0.57	0.58	0.005
ROCM	-116.7706	34.5442	-13.08	11.85	0.57	0.67	-0.167
SKOO	-116.1734	45.7488	0.30	-0.52	0.57	0.70	0.038
OCTI	-116.0018	32.7338	-27.93	28.66	0.57	0.57	-0.040
DOWN	-111.9481	42.3910	-2.07	-0.95	0.57	0.65	0.064
CALA	-118.6457	34.1401	-27.93	28.31	0.57	0.54	-0.037
A435	-118.0740	38.6925	-3.85	2.36	0.57	0.63	-0.007
IDTD	-116.2303	43.6339	-2.94	-3.24	0.57	0.63	0.004
MAGI	-118.3183	34.3862	-24.79	20.61	0.58	0.65	0.049
WARN	-118.7903	34.6877	-22.37	19.11	0.58	0.60	-0.063
SHON	-117.1923	40.0342	-4.40	1.70	0.58	0.65	0.066
MARA	-122.3051	37.9373	-19.05	21.97	0.58	0.67	-0.010
RESV	-118.4882	34.2917	-25.42	24.33	0.58	0.59	-0.002
LANW	-118.0552	33.9167	-25.83	24.16	0.58	0.58	-0.023
GS19	-117.7396	35.6597	-9.14	8.38	0.58	0.60	0.017
0821	-116.5706	33.5613	-17.93	19.49	0.58	0.61	0.006
RCKS	-118.8986	34.4326	-27.91	24.51	0.58	0.57	-0.008
STON	-119.0626	45.0036	-0.74	0.76	0.58	0.65	-0.024
KITE	-117.7164	33.5543	-28.71	28.88	0.58	0.53	-0.004
VERT	-116.3032	45.5657	-0.59	0.31	0.58	0.70	0.048
HAMA	-115.5008	33.0375	-3.96	2.55	0.58	0.56	0.007
K443	-114.3355	47.8356	0.41	0.03	0.58	0.73	0.032
IHR1	-115.3669	46.8544	0.63	1.16	0.58	0.68	-0.003
Z478	-123.1124	47.0330	4.45	5.53	0.58	0.69	-0.027
RIC1	-122.3400	37.9344	-18.49	22.84	0.58	0.72	-0.039
COME	-121.9263	37.1669	-21.77	25.62	0.58	0.59	0.000
A275	-119.4118	39.3479	-6.69	4.53	0.58	0.65	-0.154
TRAN	-115.8335	33.4294	-10.51	7.76	0.58	0.59	0.029
R502	-119.0854	46.3644	-0.07	0.09	0.58	0.70	-0.008
PAHS	-118.9067	40.7775	-5.64	2.01	0.58	0.65	0.025
TUNG	-118.2575	40.4032	-5.25	1.14	0.58	0.59	-0.005
TOMP	-122.9715	38.2124	-23.02	32.18	0.58	0.62	0.011
JSPH	-118.1539	34.2856	-19.28	22.98	0.58	0.57	-0.006
7000	-116.7159	34.6763	-10.21	7.33	0.58	0.58	-0.032
GBSN	-114.8343	44.0539	-3.06	0.23	0.58	0.70	0.088
SPOO	-122.1640	47.4008	2.50	4.11	0.58	0.62	-0.034
JNCT	-119.4686	38.3621	-9.05	8.74	0.58	0.63	0.003
0660	-118.2728	33.7198	-27.82	30.03	0.58	0.61	-0.114
RAMO	-116.3307	33.8167	-9.53	13.04	0.58	0.60	0.024
SPRI	-111.6974	40.1585	-3.13	1.77	0.58	0.59	-0.044

P515	-119. 7790	41. 0030	-5. 77	2. 57	0. 59	0. 65	0. 000
F726	-115. 9986	33. 9741	-4. 78	4. 67	0. 59	0. 57	-0. 006
BASE	-111. 0489	45. 7075	0. 01	0. 08	0. 59	0. 67	0. 021
0617	-118. 6253	35. 2742	-12. 95	11. 29	0. 59	0. 60	0. 012
LACH	-115. 1543	32. 5087	-14. 31	-5. 00	0. 59	0. 60	0. 012
GRCE	-111. 7878	42. 5413	-2. 20	-0. 92	0. 59	0. 70	0. 125
GRA5	-111. 4440	42. 9187	-1. 83	-1. 89	0. 59	0. 69	0. 096
YMR2	-119. 4753	34. 7541	-27. 65	24. 30	0. 59	0. 61	0. 014
U15A	-114. 2174	44. 5199	-1. 14	-0. 10	0. 59	0. 63	0. 011
PICO	-118. 6013	34. 3306	-27. 23	24. 77	0. 59	0. 55	-0. 013
COYS	-122. 0967	37. 5629	-19. 76	22. 48	0. 59	0. 54	-0. 034
V511	-117. 8657	36. 0614	-6. 17	4. 48	0. 59	0. 64	0. 022
SALT	-115. 8156	33. 4310	-8. 96	6. 77	0. 59	0. 60	0. 014
PERS	-118. 7455	40. 8616	-4. 47	1. 42	0. 59	0. 67	0. 024
RCUT	-116. 5956	33. 5675	-17. 92	20. 86	0. 59	0. 64	0. 003
PN3C	-116. 4580	33. 6122	-14. 84	17. 94	0. 59	0. 62	-0. 035
IDAA	-112. 0771	43. 5088	-4. 24	-0. 36	0. 59	0. 62	-0. 013
GENT	-118. 0774	43. 7438	-1. 81	0. 66	0. 59	0. 72	0. 034
RUBY	-115. 1228	40. 6172	-5. 69	-1. 50	0. 59	0. 59	0. 000
X51X	-113. 8516	44. 2036	-2. 83	-0. 21	0. 59	0. 68	0. 035
EDEN	-117. 5135	45. 9086	3. 42	-2. 18	0. 59	0. 69	-0. 015
JK02	-116. 7103	35. 2057	-6. 09	4. 59	0. 59	0. 59	-0. 004
E377	-113. 1053	41. 7463	-0. 43	3. 71	0. 59	0. 70	0. 105
LOVE	-118. 6687	34. 4963	-23. 88	21. 55	0. 60	0. 49	-0. 070
SLIM	-109. 6234	42. 8548	-0. 16	0. 15	0. 60	0. 69	0. 084
J976	-119. 1787	35. 0025	-16. 57	15. 99	0. 60	0. 62	-0. 042
THIS	-111. 4940	40. 0001	-2. 65	1. 32	0. 60	0. 59	-0. 093
SL05	-120. 1456	35. 3872	-24. 48	27. 87	0. 60	0. 61	-0. 030
CAMB	-116. 6934	44. 5553	-1. 89	-0. 55	0. 60	0. 75	-0. 002
GRNC	-116. 4465	33. 5742	-16. 50	17. 68	0. 60	0. 65	-0. 068
0407	-121. 8504	37. 7024	-12. 64	12. 67	0. 60	0. 59	-0. 112
B230	-118. 4720	39. 2989	-4. 92	2. 06	0. 60	0. 67	0. 005
MAK2	-115. 1442	32. 7288	-5. 87	2. 10	0. 60	0. 60	-0. 030
3450	-121. 8927	36. 6015	-27. 23	37. 22	0. 60	0. 57	-0. 022
HIDA	-118. 7139	45. 1704	-1. 35	0. 56	0. 60	0. 72	-0. 012
PNT2	-120. 9506	35. 4481	-27. 03	41. 34	0. 60	0. 64	-0. 011
JBON	-117. 9957	35. 3362	-9. 52	11. 87	0. 60	0. 62	-0. 020
WDA2	-117. 3805	33. 9017	-22. 69	20. 52	0. 60	0. 69	0. 079
Q84X	-109. 1508	44. 8378	0. 56	0. 42	0. 60	0. 68	0. 058
BART	-116. 8365	33. 8837	-15. 14	20. 97	0. 60	0. 66	-0. 120
CLAI	-116. 6809	36. 8893	-2. 63	0. 12	0. 60	0. 63	0. 001
BLOY	-115. 9339	33. 9253	-4. 77	4. 26	0. 60	0. 61	0. 003
MRPH	-111. 9302	40. 4347	-2. 82	-1. 84	0. 60	0. 66	-0. 026
J011	-111. 3123	44. 3868	-3. 59	-4. 86	0. 60	0. 71	-0. 047
U44X	-110. 0812	42. 9261	-0. 27	-0. 39	0. 60	0. 70	0. 113

GREN	-122.5259	41.5550	-4.41	4.64	0.60	0.75	-0.004
GODW	-115.9316	34.1364	-1.48	2.91	0.60	0.60	-0.041
BRAD	-122.3089	41.2219	-6.38	4.84	0.60	0.63	-0.005
Y79X	-116.6418	40.1923	-5.16	0.32	0.60	0.70	0.064
TAB3	-124.1937	40.6301	0.97	18.78	0.60	0.63	-0.030
MESA	-119.0065	46.6211	-0.54	2.02	0.60	0.74	0.029
0705	-117.7651	34.4927	-17.95	16.29	0.60	0.55	-0.071
SQUA	-111.1597	45.4337	-0.21	-0.43	0.60	0.71	0.067
SIBE	-116.0156	34.6243	-2.38	1.36	0.61	0.64	-0.018
GW32	-122.1664	38.7394	-9.46	5.39	0.61	0.68	-0.010
0153	-118.1711	34.0632	-25.34	23.18	0.61	0.66	-0.020
HVX4	-116.2987	45.1230	-1.44	0.00	0.61	0.75	0.004
HEAV	-111.5388	40.1696	-1.54	-2.16	0.61	0.60	-0.040
V362	-116.7728	46.4689	-0.02	0.83	0.61	0.77	0.036
WETT	-347.1211	49.1442	21.55	-11.38	0.61	0.58	0.017
ANTS	-118.5543	45.1762	-1.45	0.71	0.61	0.73	0.006
MISS	-116.7033	35.4611	-4.67	5.45	0.61	0.61	-0.002
01XD	-123.8443	41.8744	0.36	9.71	0.61	0.70	-0.061
B220	-118.6464	39.3976	-5.42	3.12	0.61	0.70	-0.011
T408	-116.8121	44.4398	-2.02	0.84	0.61	0.76	0.013
F145	-111.7831	45.6925	-1.32	0.00	0.61	0.73	0.049
K8T2	-109.8614	46.3682	0.34	0.41	0.61	0.73	0.116
BURR	-119.9248	40.5531	-6.30	2.51	0.61	0.70	0.029
CAJO	-117.4511	34.3472	-14.50	14.86	0.61	0.61	-0.024
GR32	-120.4911	35.4008	-26.45	32.03	0.61	0.62	-0.001
I762	-112.2220	42.6960	-3.69	-3.87	0.61	0.67	-0.005
ASTO	-123.8321	46.1734	6.72	7.25	0.61	0.66	-0.107
THR3	-122.2898	47.1025	2.40	4.92	0.61	0.71	-0.045
SANI	-111.8260	39.9775	-4.89	1.49	0.61	0.65	-0.078
BATT	-111.8429	42.2152	-2.39	-0.43	0.61	0.68	0.010
TARO	-120.0470	35.8893	-8.82	14.33	0.62	0.65	-0.006
ML01	-117.3546	33.6200	-24.59	26.28	0.62	0.68	-0.127
1102	-116.4768	32.6067	-26.65	27.77	0.62	0.64	-0.078
QUI2	-111.7899	39.9399	-1.86	-0.35	0.62	0.64	-0.042
ETNA	-111.0118	43.0477	-1.51	-1.00	0.62	0.73	0.118
CARO	-113.8230	47.8519	-0.26	-0.03	0.62	0.74	0.009
SIER	-117.6531	33.8492	-25.03	25.38	0.62	0.56	-0.206
TRAC	-121.4424	37.6897	-11.24	7.20	0.62	0.64	0.001
DENT	-118.5534	40.8819	-4.17	1.35	0.62	0.62	0.014
HP74	-118.5401	34.4071	-24.87	24.86	0.62	0.64	-0.010
COAC	-115.4070	33.1962	-2.86	2.65	0.62	0.61	-0.054
CAPS	-112.0465	39.6622	-2.61	-0.20	0.62	0.56	0.003
1005	-120.2667	37.9972	-12.89	6.83	0.62	0.58	0.017
6683	-117.6098	38.8821	-3.02	0.87	0.62	0.66	0.009
FLOQ	-112.0274	40.5879	-2.98	-0.43	0.62	0.66	-0.031

HAYF	-123. 2187	40. 6588	-7. 47	8. 47	0. 62	0. 65	-0. 003
FARV	-122. 6533	43. 5858	0. 15	5. 78	0. 62	0. 72	-0. 083
PACO	-118. 4083	34. 2636	-26. 77	24. 64	0. 62	0. 64	-0. 066
25SE	-115. 7832	33. 4405	-9. 02	6. 16	0. 62	0. 61	-0. 015
P327	-122. 5346	48. 7912	3. 00	2. 45	0. 62	0. 71	0. 050
G298	-118. 1936	40. 1218	-5. 45	1. 73	0. 62	0. 74	0. 065
D405	-116. 2144	45. 8816	-0. 52	-0. 23	0. 62	0. 78	0. 040
HSWY	-108. 6697	44. 0131	-0. 61	0. 65	0. 62	0. 73	0. 102
IRWI	-117. 9995	34. 0776	-26. 95	23. 27	0. 62	0. 66	0. 026
BUCH	-122. 0568	37. 9874	-13. 47	13. 48	0. 62	0. 66	0. 014
G120	-116. 6030	33. 5646	-18. 16	20. 10	0. 62	0. 70	0. 003
EDOM	-116. 4311	33. 8704	-11. 16	13. 06	0. 62	0. 62	-0. 003
E259	-114. 2389	39. 0978	-2. 90	-0. 07	0. 63	0. 71	0. 029
STAD	-122. 2509	37. 8701	-17. 41	23. 06	0. 63	0. 68	-0. 037
D706	-118. 9316	43. 9603	-2. 02	0. 59	0. 63	0. 77	-0. 015
PARC	-118. 6053	37. 4950	-9. 79	16. 90	0. 63	0. 64	-0. 021
STSP	-116. 2907	35. 6326	-4. 11	0. 75	0. 63	0. 67	-0. 040
ROBO	-116. 0608	33. 4408	-13. 17	15. 60	0. 63	0. 64	0. 016
Y100	-118. 7415	46. 7961	-0. 22	0. 82	0. 63	0. 78	0. 007
DRIN	-116. 5337	35. 5224	-4. 60	2. 39	0. 63	0. 62	0. 016
M729	-112. 2036	47. 8339	0. 75	0. 12	0. 63	0. 74	0. 030
HOLY	-118. 1753	33. 9303	-27. 91	26. 73	0. 63	0. 65	-0. 053
G318	-112. 7124	44. 7255	-0. 87	-1. 22	0. 63	0. 76	0. 104
5020	-122. 9791	37. 9963	-25. 68	36. 59	0. 63	0. 58	-0. 020
TWST	-119. 1002	34. 6412	-26. 34	22. 61	0. 63	0. 64	-0. 002
GENE	-111. 7190	40. 2981	-3. 82	1. 16	0. 63	0. 64	-0. 060
JAC1	-118. 6604	35. 0890	-14. 30	11. 94	0. 63	0. 63	-0. 040
SGPK	-116. 8250	34. 0992	-12. 52	12. 75	0. 63	0. 64	0. 001
H130	-119. 0780	38. 1602	-8. 16	7. 24	0. 63	0. 73	0. 015
B285	-117. 9476	39. 3003	-3. 82	0. 22	0. 63	0. 75	-0. 136
GS26	-117. 5420	35. 7401	-6. 96	6. 42	0. 63	0. 69	0. 021
P157	-116. 3988	44. 8243	-0. 29	0. 23	0. 63	0. 77	0. 029
RIVE	-111. 9104	40. 5313	-2. 26	-1. 36	0. 63	0. 65	-0. 027
FORE	-118. 9578	45. 1377	-0. 28	0. 68	0. 64	0. 78	-0. 020
79JR	-116. 8343	39. 9677	-3. 96	1. 84	0. 64	0. 73	0. 064
G076	-116. 7962	33. 6692	-19. 44	21. 96	0. 64	0. 71	-0. 030
WHC2	-119. 8088	44. 5515	-0. 82	0. 59	0. 64	0. 79	0. 008
GS49	-117. 1627	35. 3748	-5. 81	8. 20	0. 64	0. 68	0. 024
SD35	-116. 5711	32. 9145	-29. 02	26. 84	0. 64	0. 69	-0. 072
COCH	-116. 1583	33. 7403	-9. 55	8. 00	0. 64	0. 57	-0. 071
Z140	-114. 8640	47. 4451	0. 25	-0. 03	0. 64	0. 82	0. 061
L52X	-113. 4134	44. 2512	-1. 64	-0. 87	0. 64	0. 78	0. 102
STAC	-122. 2519	37. 8711	-16. 52	22. 37	0. 64	0. 69	-0. 037
PPER	-120. 3816	35. 6741	-24. 10	29. 43	0. 64	0. 67	-0. 023
VOOM	-116. 4719	44. 5985	-1. 70	-0. 09	0. 64	0. 81	0. 020

A2	-111.7460	39.7443	-1.43	-0.92	0.64	0.64	0.031
A117	-113.3063	43.6214	-2.68	-2.20	0.64	0.78	0.106
V175	-112.4093	40.3368	-4.35	-1.71	0.64	0.67	-0.005
BELL	-118.0322	40.9395	-5.40	0.85	0.64	0.68	-0.005
SPBR	-113.5569	47.9562	-0.56	-0.29	0.64	0.77	0.062
GS21	-117.7474	35.8232	-7.33	8.00	0.64	0.68	0.015
FMTH	-117.5050	35.2133	-8.23	9.58	0.64	0.71	0.051
LEDG	-116.4392	34.5020	-3.82	0.77	0.64	0.63	-0.009
MONC	-111.8529	39.8066	-3.04	-1.01	0.64	0.69	-0.056
MARI	-113.3558	48.3171	0.72	-1.33	0.64	0.71	-0.009
S058	-112.9562	43.4555	-2.91	-2.01	0.64	0.66	0.023
R046	-110.8509	43.4984	-1.76	-0.64	0.64	0.79	0.011
GP35	-123.6491	46.3339	6.34	6.44	0.64	0.72	-0.024
MORT	-122.2704	46.5506	1.87	4.23	0.64	0.79	-0.046
T138	-116.4197	33.6086	-14.85	17.81	0.64	0.71	-0.020
TIMR	-121.2959	41.6292	-3.01	4.43	0.64	0.68	-0.009
HSTN	-120.9298	44.2564	0.49	2.42	0.64	0.81	-0.039
CST1	-118.7857	34.0857	-23.57	23.35	0.64	0.70	-0.051
07CI	-118.1798	33.9513	-26.60	26.20	0.64	0.68	-0.042
Y538	-108.7900	45.7138	0.06	-0.47	0.64	0.62	0.100
OTAY	-116.8409	32.6007	-28.45	28.06	0.65	0.73	-0.026
6358	-116.4746	33.9251	-11.57	15.06	0.65	0.65	-0.011
0225	-115.7255	32.6481	-21.46	27.34	0.65	0.66	0.006
C344	-117.8034	40.9052	-3.42	-1.16	0.65	0.69	0.003
PSTP	-117.6846	43.7943	-1.39	0.29	0.65	0.77	0.002
Q837	-120.5699	40.5472	-6.29	4.23	0.65	0.78	0.024
Q374	-119.6784	43.5389	-0.72	1.86	0.65	0.78	0.010
YAM2	-119.4844	34.8525	-24.38	24.83	0.65	0.63	0.025
LASE	-117.9423	33.7928	-27.96	27.56	0.65	0.58	-0.063
CPVO	-115.3075	32.4183	-11.25	24.14	0.65	0.58	-0.013
WINT	-122.1406	37.6526	-16.70	22.11	0.65	0.60	-0.023
G021	-116.7318	33.9378	-14.69	16.22	0.65	0.66	-0.003
VENI	-118.4186	33.9722	-30.70	33.02	0.65	0.66	0.008
S_31	-115.7696	33.4271	-9.03	5.45	0.65	0.61	0.000
CV10	-121.7954	36.7743	-29.10	33.92	0.65	0.68	0.002
02EX	-120.2452	40.1254	-6.66	4.42	0.65	0.76	0.041
Cupo	-122.0238	44.1907	-2.30	3.95	0.65	0.75	-0.035
64HJ	-119.3467	40.6543	-2.03	-5.15	0.65	0.75	0.031
K313	-118.4170	43.7520	-0.73	1.04	0.65	0.77	-0.024
JT11	-116.2243	33.9777	-6.56	8.67	0.65	0.67	-0.001
METS	-335.6047	60.2175	18.24	-12.96	0.65	0.63	0.015
PRIC	-112.3576	44.9062	-1.53	-1.96	0.65	0.76	0.016
ANTO	-117.6751	34.2485	-24.20	18.77	0.65	0.65	-0.002
SILA	-121.0615	43.1248	-1.11	4.00	0.66	0.65	-0.184
FORA	-114.9888	33.6092	-1.96	-0.04	0.66	0.64	-0.016

E843	-120.6150	40.4508	-7.00	5.33	0.66	0.79	0.018
DANT	-116.7255	36.2263	-2.21	1.35	0.66	0.69	-0.053
CBL1	-119.5490	45.3441	-0.67	1.22	0.66	0.83	0.023
PION	-116.9441	44.1193	-1.52	-0.47	0.66	0.81	0.026
SPLT	-112.6347	43.4447	-3.41	-0.71	0.66	0.67	0.013
WINW	-121.9526	37.5325	-19.07	20.91	0.66	0.68	0.011
K238	-119.2676	46.1952	-0.41	0.30	0.66	0.82	0.007
N518	-119.3966	45.6575	-0.21	0.29	0.66	0.81	0.013
BECK	-119.1873	46.0614	-0.95	-0.48	0.66	0.82	0.044
PAXU	-116.3898	34.1531	-6.33	8.59	0.66	0.65	-0.054
VM15	-115.2455	32.2446	-18.89	24.89	0.66	0.68	-0.002
M327	-108.2137	43.5856	0.20	0.98	0.66	0.79	0.100
D138	-116.4981	33.5711	-16.26	19.47	0.66	0.73	-0.015
HIL4	-122.4024	37.9423	-19.64	24.40	0.66	0.69	-0.011
FUSG	-120.1832	39.9198	-7.91	4.09	0.66	0.76	0.033
M415	-119.6357	44.7715	-1.27	0.86	0.66	0.82	0.013
WORK	-118.0029	33.9917	-27.78	24.41	0.66	0.60	-0.022
BAKR	-117.8152	44.8327	-1.76	-0.15	0.66	0.79	0.030
KAMI	-116.0053	46.2126	0.46	-0.14	0.66	0.86	0.049
ACUT	-115.6093	33.0300	-8.30	12.74	0.66	0.69	0.004
FERN	-112.1038	39.7620	-3.91	-1.63	0.66	0.60	0.017
7001	-116.4692	34.5600	-8.53	4.19	0.66	0.67	-0.076
PB21	-115.6823	33.9719	-3.43	2.25	0.66	0.68	0.004
SOUT	-110.3546	44.3300	-2.00	-1.27	0.66	0.71	0.003
RS26	-123.4611	45.7968	4.82	6.00	0.67	0.79	-0.024
9070	-122.5412	41.4397	-4.84	6.12	0.67	0.70	-0.009
A295	-119.0758	39.4645	-5.93	2.12	0.67	0.79	-0.131
HOLB	-128.1350	50.6404	0.49	0.53	0.67	0.64	-0.010
MIKE	-118.9369	37.6598	-6.70	5.74	0.67	0.76	-0.037
GS47	-117.3167	35.2139	-7.74	8.65	0.67	0.75	0.059
MESQ	-116.1134	34.1933	-1.67	2.06	0.67	0.70	-0.136
A002	-119.2642	34.5655	-29.40	23.26	0.67	0.65	0.068
SDA1	-117.3429	33.9549	-21.74	23.62	0.67	0.81	0.159
A811	-112.3583	42.1562	-2.40	-2.28	0.67	0.81	0.108
BUSH	-112.3377	43.5398	-1.30	-4.71	0.67	0.74	0.085
K102	-117.6779	40.1588	-3.95	0.05	0.67	0.79	0.068
HERD	-122.2315	41.6282	-1.84	6.47	0.67	0.72	0.004
SAFE	-118.6013	34.3304	-26.20	26.14	0.67	0.49	-0.091
S315	-116.5979	33.0743	-26.05	30.35	0.67	0.66	-0.020
PLPR	-115.9531	32.5597	-39.66	31.82	0.67	0.69	0.023
ROHN	-124.1318	40.5540	-5.32	19.64	0.67	0.71	-0.029
2076	-121.1345	35.6052	-30.02	36.13	0.67	0.69	-0.004
ROAD	-116.5893	33.5270	-20.03	21.78	0.67	0.68	-0.001
WOOD	-114.0296	43.4327	-3.03	-2.87	0.67	0.73	0.087
SM07	-115.8316	31.6460	-28.23	28.63	0.68	0.69	-0.034

PTN2	-122. 9230	38. 2038	-19. 05	28. 37	0. 68	0. 75	0. 017
TOMB	-119. 0664	43. 5855	-1. 38	0. 81	0. 68	0. 83	-0. 012
07EH	-118. 2158	34. 2107	-25. 42	23. 95	0. 68	0. 69	-0. 052
GS45	-117. 5570	36. 0022	-6. 82	4. 20	0. 68	0. 73	0. 026
RBYU	-112. 1072	45. 2385	0. 41	-0. 80	0. 68	0. 84	0. 132
0701	-118. 4033	33. 9965	-27. 99	29. 33	0. 68	0. 59	0. 037
61RB	-117. 2659	39. 9755	-3. 10	-0. 05	0. 68	0. 83	0. 084
DOEP	-121. 7259	41. 5077	-3. 16	7. 52	0. 68	0. 73	0. 009
L229	-124. 3769	40. 4516	-9. 11	33. 78	0. 68	0. 76	-0. 160
CNTR	-123. 7032	46. 9727	6. 54	5. 59	0. 68	0. 81	-0. 024
BLKF	-121. 8914	41. 3464	-3. 71	6. 12	0. 68	0. 74	-0. 013
HELI	-121. 0195	39. 7298	-9. 13	5. 74	0. 68	0. 79	0. 035
HSPR	-119. 6492	40. 9227	-5. 12	2. 55	0. 68	0. 77	0. 017
PB15	-115. 8478	33. 9057	-3. 84	3. 38	0. 68	0. 70	0. 002
MISA	-114. 0902	46. 9244	-0. 09	-0. 80	0. 68	0. 74	0. 073
CANN	-123. 9603	45. 8617	6. 35	6. 65	0. 69	0. 72	-0. 042
X360	-118. 3929	38. 5428	-4. 94	2. 85	0. 69	0. 82	0. 036
3926	-111. 8805	42. 6500	-3. 67	-0. 99	0. 69	0. 84	0. 128
B340	-119. 3004	45. 9445	0. 09	-0. 88	0. 69	0. 89	0. 019
ARP_	-124. 1157	40. 8048	2. 85	17. 63	0. 69	0. 78	0. 013
SBIS	-119. 0413	33. 4721	-31. 64	35. 10	0. 69	0. 57	-0. 053
JUBI	-116. 5276	35. 9193	-2. 40	2. 66	0. 69	0. 70	0. 004
154S	-109. 5873	45. 7115	0. 45	0. 59	0. 69	0. 85	0. 111
409A	-123. 4511	48. 1237	5. 42	3. 10	0. 69	0. 89	0. 037
A255	-119. 6470	39. 2200	-5. 92	6. 81	0. 69	0. 81	-0. 138
ADAM	-118. 3822	47. 1272	0. 47	-0. 29	0. 69	0. 90	0. 016
A46X	-117. 0472	46. 2923	-0. 40	-0. 53	0. 69	0. 89	0. 034
R382	-118. 6541	43. 6187	-0. 86	-0. 55	0. 69	0. 83	-0. 016
SAWW	-118. 9517	37. 6896	-6. 01	6. 70	0. 69	0. 71	-0. 050
WDW2	-117. 2542	32. 7001	-28. 03	29. 17	0. 69	0. 72	-0. 023
P_42	-116. 5518	35. 4259	-3. 98	-0. 41	0. 69	0. 73	0. 025
OYST	-122. 9250	38. 2059	-20. 58	30. 35	0. 69	0. 85	0. 017
BISC	-120. 3414	40. 5587	-6. 66	3. 85	0. 69	0. 83	0. 032
W65X	-119. 5000	40. 7897	-4. 78	2. 77	0. 69	0. 82	0. 037
I019	-115. 7294	32. 7890	-22. 09	26. 10	0. 69	0. 71	-0. 036
GRY1	-108. 0281	44. 4931	-0. 11	0. 26	0. 69	0. 75	0. 026
GS36	-117. 0425	35. 1678	-8. 24	7. 39	0. 69	0. 78	0. 053
0703	-118. 9627	34. 0528	-28. 58	29. 48	0. 69	0. 76	-0. 075
OBCH	-115. 5011	33. 2790	-2. 79	1. 62	0. 70	0. 72	0. 020
N274	-123. 7879	45. 9072	4. 19	6. 73	0. 70	0. 78	-0. 112
GS42	-117. 6316	36. 1069	-6. 81	2. 96	0. 70	0. 75	-0. 006
W078	-118. 5769	38. 6061	-5. 01	3. 83	0. 70	0. 82	0. 033
GS50	-117. 5915	35. 0829	-8. 79	10. 29	0. 70	0. 77	0. 054
Y378	-113. 6502	41. 4626	-2. 86	-0. 95	0. 70	0. 85	0. 125
GRSY	-120. 4141	34. 7306	-30. 30	36. 86	0. 70	0. 52	-0. 059

GS46	-117. 5921	35. 8751	-7. 09	6. 26	0. 70	0. 75	0. 039
GS43	-117. 5464	36. 0668	-6. 26	4. 19	0. 70	0. 76	0. 000
A280	-119. 4055	39. 3498	-6. 08	6. 00	0. 70	0. 90	-0. 090
WBCH	-118. 3945	33. 8773	-27. 69	29. 20	0. 70	0. 70	-0. 006
D205	-116. 2080	39. 5631	-2. 57	-1. 64	0. 70	0. 81	-0. 056
PBB4	-116. 1730	33. 9524	-4. 83	6. 65	0. 70	0. 73	0. 012
BOZE	-111. 0462	45. 6631	0. 96	-0. 12	0. 70	0. 76	0. 019
CASG	-122. 9188	46. 2833	3. 59	5. 92	0. 70	0. 77	-0. 033
CAIS	-121. 9349	37. 5126	-15. 59	17. 15	0. 70	0. 71	-0. 075
7ADL	-110. 3525	42. 9966	0. 40	-0. 02	0. 70	0. 86	0. 130
RKBU	-122. 5660	45. 5467	2. 98	4. 23	0. 71	0. 83	-0. 061
1200	-121. 2423	38. 7861	-8. 98	7. 77	0. 71	0. 81	-0. 052
HOPE	-117. 3664	43. 9394	-1. 36	-1. 17	0. 71	0. 86	0. 009
HELE	-111. 9916	46. 5864	0. 18	-0. 77	0. 71	0. 75	0. 116
C753	-120. 6189	44. 3070	-0. 50	3. 00	0. 71	0. 93	-0. 036
CAHU	-116. 2737	33. 6386	-13. 14	13. 20	0. 71	0. 72	-0. 027
KEY2	-116. 1908	34. 0827	-5. 56	7. 26	0. 71	0. 74	-0. 012
HDQT	-115. 8199	46. 6339	-0. 93	0. 76	0. 71	0. 93	0. 017
P99X	-112. 2248	42. 3437	-4. 19	-2. 26	0. 71	0. 86	0. 118
8767	-124. 2176	40. 7669	3. 82	19. 16	0. 71	0. 74	-0. 032
FRA1	-122. 2857	37. 9107	-18. 52	22. 23	0. 71	0. 73	-0. 056
B100	-118. 7031	39. 9954	-5. 28	1. 72	0. 71	0. 85	-0. 025
PAJU	-118. 2946	35. 1207	-11. 03	11. 50	0. 71	0. 67	0. 008
0205	-120. 7762	41. 9332	-2. 01	6. 46	0. 72	0. 58	0. 083
U471	-117. 3034	34. 1122	-20. 22	19. 79	0. 72	0. 78	-0. 033
LOMP	-122. 0589	37. 0994	-23. 83	33. 44	0. 72	0. 77	-0. 030
WEYM	-117. 7775	34. 1109	-25. 14	22. 83	0. 72	0. 75	-0. 081
Z28X	-116. 8896	44. 3427	-5. 45	0. 86	0. 72	0. 88	0. 004
01NE	-123. 6751	40. 4390	-9. 29	12. 32	0. 72	0. 77	-0. 015
EBBB	-122. 1512	37. 7097	-17. 91	21. 68	0. 72	0. 80	-0. 071
ML03	-112. 2538	40. 7022	-1. 55	-1. 28	0. 72	0. 72	-0. 033
CD14	-115. 1119	32. 4200	-17. 19	7. 66	0. 72	0. 77	0. 004
YORK	-120. 8461	35. 5348	-22. 09	35. 74	0. 73	0. 79	0. 003
E270	-114. 0381	39. 0596	-3. 73	-0. 54	0. 73	0. 85	-0. 079
DDAM	-109. 0080	43. 2286	-1. 63	-0. 88	0. 73	0. 84	0. 141
CAES	-121. 9358	37. 5121	-18. 77	21. 29	0. 73	0. 71	-0. 088
07NE	-115. 7521	33. 4124	-9. 54	5. 94	0. 73	0. 75	-0. 005
HOLC	-121. 2742	41. 4779	-4. 45	4. 43	0. 73	0. 80	0. 015
ALEN	-124. 0951	41. 1917	0. 36	11. 93	0. 73	0. 58	0. 004
BEEC	-119. 0360	44. 5350	-0. 88	1. 04	0. 73	0. 91	0. 004
SM03	-115. 8271	31. 6246	-27. 34	29. 90	0. 73	0. 77	-0. 012
SM05	-115. 8225	31. 6340	-28. 47	28. 87	0. 73	0. 80	0. 060
ROOS	-121. 9616	37. 5433	-15. 36	16. 17	0. 73	0. 82	-0. 065
LUMP	-121. 1497	39. 6307	-9. 21	5. 95	0. 73	0. 86	0. 039
DORF	-120. 9362	39. 8222	-9. 98	6. 10	0. 73	0. 83	0. 030

BEAA	-116. 8842	34. 2643	-10. 98	17. 37	0. 73	0. 73	-0. 053
A121	-111. 7195	40. 2190	-4. 06	-0. 31	0. 73	0. 71	0. 099
F295	-112. 2765	39. 1129	-3. 22	-2. 20	0. 73	0. 83	-0. 040
NR58	-117. 5605	33. 9347	-25. 41	24. 43	0. 73	0. 65	-0. 022
1101	-116. 9832	32. 5685	-26. 44	28. 05	0. 74	0. 71	-0. 161
G400	-112. 4850	38. 8062	-0. 33	-1. 03	0. 74	0. 85	-0. 059
ROIS	-121. 9607	37. 5429	-11. 35	17. 97	0. 74	0. 76	-0. 035
2271	-121. 9499	38. 5327	-9. 72	8. 79	0. 74	0. 81	-0. 022
PASO	-117. 7064	35. 5130	-7. 75	9. 15	0. 74	0. 75	-0. 019
PUGH	-122. 8197	38. 8204	-9. 55	23. 62	0. 74	0. 75	-0. 021
BARK	-117. 2356	43. 9830	-1. 80	0. 22	0. 74	0. 92	0. 021
CABI	-112. 8246	44. 5526	-0. 84	-0. 82	0. 74	0. 85	0. 092
1201	-118. 0883	33. 7375	-27. 05	28. 91	0. 74	0. 57	0. 029
E65X	-119. 9070	41. 0886	-5. 45	2. 59	0. 74	0. 89	0. 044
0706	-118. 9398	34. 3938	-30. 26	25. 80	0. 74	0. 67	0. 037
J74X	-118. 2460	40. 9350	-5. 08	1. 49	0. 74	0. 83	0. 039
E205	-114. 8433	39. 2014	-3. 61	-1. 41	0. 74	0. 86	-0. 063
CRM3	-122. 0522	36. 9928	-25. 73	33. 38	0. 74	0. 83	-0. 034
OXCO	-118. 5622	34. 1793	-26. 26	27. 19	0. 74	0. 79	-0. 002
03EH	-121. 5425	38. 8666	-13. 42	5. 93	0. 74	0. 83	-0. 046
NEST	-117. 9998	34. 3460	-24. 09	20. 77	0. 74	0. 75	-0. 033
GS48	-117. 4589	35. 5843	-7. 07	7. 80	0. 75	0. 84	0. 091
C270	-116. 7739	39. 4101	-2. 37	-0. 28	0. 75	0. 86	-0. 054
01RE	-123. 6225	40. 9439	-2. 45	8. 44	0. 75	0. 89	-0. 044
01ND	-123. 7974	40. 4721	-5. 66	13. 95	0. 75	0. 84	-0. 028
05NE	-115. 7347	33. 4271	-8. 97	0. 77	0. 75	0. 81	0. 072
2068	-121. 0426	35. 5294	-27. 63	35. 03	0. 75	0. 79	-0. 013
C290	-116. 4863	39. 5006	-2. 10	0. 16	0. 75	0. 88	-0. 053
ALPN	-118. 1092	34. 5436	-19. 29	19. 09	0. 76	0. 89	-0. 095
0818	-117. 1041	34. 0222	-16. 25	17. 40	0. 76	0. 80	-0. 080
HENN	-122. 3618	38. 2832	-13. 76	16. 70	0. 76	0. 90	-0. 071
GS44	-117. 7722	35. 9512	-4. 19	8. 71	0. 76	0. 83	0. 000
HAP2	-118. 8771	34. 3280	-27. 50	27. 10	0. 76	0. 74	-0. 002
RSRT	-116. 3915	33. 6878	-13. 71	13. 93	0. 76	0. 82	-0. 028
ALKI	-119. 9995	42. 9537	-2. 75	2. 91	0. 77	0. 89	0. 054
PV00	-118. 3358	33. 7472	-27. 56	32. 82	0. 77	0. 83	-0. 055
G326	-118. 2561	43. 7846	-1. 95	-0. 49	0. 77	0. 97	0. 033
JIME	-121. 8433	38. 9277	-10. 02	6. 27	0. 77	0. 85	-0. 051
20FT	-120. 8420	40. 3666	-8. 00	6. 05	0. 77	0. 95	0. 017
INDO	-116. 7771	33. 7945	-17. 02	20. 72	0. 77	0. 77	-0. 062
GAPP	-116. 1712	33. 7490	-10. 95	8. 90	0. 77	0. 77	-0. 003
FLOR	-117. 3546	45. 9271	-0. 62	-0. 52	0. 77	0. 97	0. 039
THOU	-116. 2718	33. 8894	-7. 75	1. 39	0. 77	0. 72	-0. 077
CVIL	-121. 8303	38. 0762	-7. 42	11. 21	0. 77	0. 81	-0. 002
10HG	-121. 3306	37. 7301	-11. 60	7. 23	0. 77	0. 81	-0. 127

B407	-117.0056	44.0196	-0.95	-2.28	0.77	0.96	0.007
MUL1	-118.5599	34.1301	-27.91	32.40	0.77	0.75	-0.055
HOTT	-118.8213	37.6587	-7.28	6.69	0.78	0.87	-0.048
FRMT	-118.4074	34.7491	-16.31	15.23	0.78	0.78	-0.012
E215	-114.7610	39.1025	-2.71	-1.28	0.78	0.89	-0.073
SHOR	-121.4853	36.9359	-13.77	20.22	0.78	0.94	0.017
N735	-121.3520	44.2948	0.18	1.18	0.78	1.02	-0.054
CATO	-118.7858	34.0858	-28.36	29.32	0.78	0.59	-0.153
N105	-117.9704	40.1158	-6.79	2.31	0.78	0.97	0.074
RDEC	-116.9316	33.4678	-24.51	24.83	0.78	0.82	-0.045
P19A	-119.4727	40.5752	-6.55	2.40	0.78	0.86	0.037
OAKS	-118.8858	34.1955	-29.25	29.27	0.79	0.77	-0.252
G011	-116.5504	33.9954	-9.02	14.51	0.79	0.80	0.012
01PA	-124.2556	40.5890	-0.17	22.11	0.79	0.90	-0.012
E225	-114.5824	39.0255	-4.53	-0.15	0.79	0.93	-0.074
GRN2	-122.9202	47.3893	3.58	0.60	0.79	0.91	-0.098
SPA9	-122.3558	37.9891	-18.37	22.21	0.79	0.92	-0.107
SCA1	-122.0559	36.9780	-28.37	32.63	0.79	0.90	-0.031
MINA	-118.0738	38.4074	-4.80	2.11	0.79	0.82	-0.009
ROSA	-117.1889	33.5052	-26.50	26.95	0.79	0.78	-0.034
CLDL	-117.8855	38.0309	-4.39	2.35	0.79	0.91	-0.026
KNCK	-113.8031	48.2083	0.65	-0.95	0.79	1.07	0.074
SJPK	-116.6795	33.8147	-13.97	18.27	0.79	0.80	0.010
I021	-115.8986	32.7795	-23.41	24.91	0.79	0.81	0.004
TROR	-116.5305	34.8385	-5.39	-0.96	0.80	0.81	0.034
SM08	-115.8304	31.6367	-28.49	29.22	0.80	0.76	-0.015
1165	-118.2607	37.1830	-6.11	5.74	0.80	0.82	-0.011
L290	-117.3287	35.9779	-5.64	4.17	0.80	0.80	-0.014
THRE	-115.1025	42.0866	-1.39	-4.11	0.80	0.85	0.064
VIL2	-121.0063	35.4676	-25.75	42.34	0.80	0.81	-0.035
CEDU	-117.4873	40.1426	-6.42	2.51	0.80	0.98	0.062
WALT	-122.7631	44.0778	5.08	-1.23	0.80	1.00	-0.058
3836	-122.7252	37.9675	-22.04	29.51	0.80	0.50	-0.422
ARLI	-122.1577	48.1616	1.52	2.50	0.80	0.88	-0.010
11AA	-116.2986	33.2957	-22.00	19.88	0.80	0.84	-0.037
CAHA	-118.3258	34.1370	-26.44	25.17	0.80	0.83	-0.056
SALE	-121.6957	36.7823	-28.87	33.69	0.81	0.87	-0.035
TLLA	-118.8622	37.6189	-7.10	6.55	0.81	0.93	-0.043
P501	-121.9284	41.6567	-2.03	4.23	0.81	0.89	0.015
HERS	-359.6637	50.8673	19.19	-8.79	0.81	0.73	-0.000
OVER	-121.2814	41.7050	-4.08	2.29	0.81	0.95	-0.035
SCTV	-122.8535	41.5579	-7.12	6.90	0.82	0.99	-0.078
G430	-112.1774	38.6594	-0.36	-0.25	0.82	0.96	-0.041
HAPY	-118.8501	34.3580	-27.76	28.54	0.82	0.67	-0.109
0601	-119.7270	37.2499	-8.46	9.37	0.82	0.59	0.034

RMGU	-118.2923	28.8827	-35.63	35.70	0.82	0.81	-0.003
PK04	-115.9581	35.0212	-2.45	-0.11	0.82	0.84	0.014
D265	-115.4005	39.3644	-2.31	-1.32	0.83	0.94	-0.078
EAST	-124.0804	40.0300	-21.50	31.32	0.83	1.01	-0.070
9750	-124.1838	41.7460	0.97	10.52	0.83	0.92	-0.091
MOGO	-116.5862	33.9880	-11.59	13.39	0.84	0.99	0.009
H301	-122.5468	39.3517	-11.01	5.88	0.84	1.00	0.075
OJAI	-119.2022	34.4399	-31.99	26.48	0.84	0.84	-0.013
CLAT	-123.2055	46.1052	3.71	5.68	0.84	0.93	-0.160
OZNA	-119.3548	34.6830	-28.59	21.66	0.84	0.92	-0.077
D275	-115.1659	39.4281	-2.62	-1.84	0.84	0.96	-0.077
WINE	-121.9523	37.5324	-14.00	16.32	0.84	0.87	0.071
SCP4	-116.1864	34.3484	-2.21	4.07	0.84	0.85	0.012
M753	-120.4159	44.3971	-0.80	1.75	0.84	1.21	0.034
CHIM	-114.9103	43.3425	-3.39	1.61	0.84	1.06	0.100
AMOS	-117.8251	41.3978	-4.04	1.46	0.85	1.03	-0.055
PK02	-116.2229	34.8910	-5.78	1.05	0.85	0.86	0.005
RDHL	-122.0955	37.5510	-17.96	23.03	0.85	0.96	0.027
R500	-121.6059	41.3308	-5.29	4.53	0.86	0.96	-0.024
CURR	-121.8226	38.4751	-9.23	8.39	0.86	0.98	-0.023
M504	-121.5258	41.7204	-2.65	1.42	0.86	0.98	-0.072
2069	-120.7062	35.5653	-26.24	35.53	0.86	0.91	0.012
BLFA	-116.2333	33.2583	-21.10	20.66	0.86	0.84	0.067
LATE	-118.2831	38.0820	-5.89	-2.29	0.86	0.90	-0.017
BOYS	-117.7297	34.0095	-18.72	24.62	0.86	0.84	-0.033
C10X	-116.3602	45.3118	0.74	0.02	0.86	1.17	0.039
SCP2	-115.9685	34.4192	-0.78	2.23	0.86	0.88	0.013
WEED	-118.9323	35.2229	-13.44	9.89	0.87	0.91	-0.042
THOM	-120.5581	40.2614	-8.09	6.23	0.87	0.84	-0.027
ENDD	-114.4814	34.0441	0.75	0.88	0.87	0.82	-0.012
SCOL	-116.5463	46.5150	-0.73	-0.49	0.87	1.21	0.059
BR02	-122.3306	44.1738	0.11	4.51	0.87	1.10	-0.133
DBLE	-118.4867	35.0333	-13.23	13.59	0.87	0.88	0.054
01QF	-123.3251	40.8145	-8.00	8.53	0.87	1.03	0.075
B240	-118.4135	39.2762	-4.76	3.29	0.88	0.96	-0.139
LCCM	-122.1764	44.1770	2.78	-2.09	0.88	1.28	-0.022
UCLA	-118.4410	34.0687	-22.52	27.14	0.88	0.81	-0.034
PTHP	-116.2994	33.7143	-13.51	13.08	0.88	0.93	-0.013
PF1_	-116.4297	33.5842	-17.33	17.75	0.88	1.00	-0.041
CANE	-116.1760	36.7760	-2.93	-1.56	0.89	0.92	-0.172
NICX	-123.4449	46.1002	4.23	6.64	0.90	1.15	0.148
N144	-111.4786	44.8302	-6.32	5.07	0.90	1.01	0.014
HILG	-118.2358	45.3311	-1.08	0.51	0.90	1.09	0.064
01RD	-123.7724	40.8964	-3.09	11.17	0.90	1.07	-0.003
A220	-120.0326	39.2384	-10.27	6.38	0.90	1.00	-0.147

I025	-115.5972	33.3076	-9.13	-0.87	0.90	0.96	-0.019
9080	-122.3397	41.4857	-5.41	5.83	0.90	1.11	-0.018
VDGO	-118.2801	34.2151	-25.05	24.20	0.91	0.98	-0.011
0027	-118.1463	34.7541	-14.49	15.11	0.91	0.70	0.135
2755	-117.9802	45.4060	3.00	0.55	0.91	1.24	0.008
6041	-117.1704	34.8335	-11.01	11.86	0.91	0.99	-0.053
0140	-117.6884	34.6082	-15.80	14.42	0.91	0.84	-0.107
05VH	-121.0748	36.4880	-8.41	14.63	0.91	1.00	0.043
SWT1	-117.0085	32.6883	-28.25	27.86	0.91	0.94	0.011
ROBA	-119.9661	35.9886	-6.99	11.66	0.91	1.02	-0.023
F260	-112.9249	39.3164	-2.22	-1.29	0.91	1.10	-0.035
U451	-118.6929	34.4059	-17.70	25.08	0.91	1.01	-0.097
SCP5	-116.2369	34.4325	2.60	8.77	0.92	0.93	0.018
0002	-114.2031	32.9391	-1.33	0.30	0.92	0.92	0.080
G244	-122.7735	38.8148	-18.67	10.62	0.92	0.97	0.025
D236	-115.8739	39.3685	-4.97	-0.77	0.92	1.07	0.007
RLNS	-114.1739	47.9238	-1.58	0.28	0.92	0.93	0.005
Z786	-118.3734	34.2223	-26.07	24.36	0.92	1.07	-0.038
PJZX	-115.8837	32.4170	-27.20	28.76	0.93	0.94	0.024
U107	-122.3457	39.0656	-10.63	6.61	0.93	1.19	0.092
FRZI	-118.9691	34.7750	-24.15	17.23	0.93	0.95	-0.045
SIO3	-117.2504	32.8647	-31.89	31.50	0.93	0.88	-0.010
LATH	-111.1450	44.4482	-2.05	-7.09	0.93	1.08	-0.017
FLIS	-122.2732	37.9003	-15.17	17.51	0.93	1.00	-0.043
JKCA	-119.8233	34.5131	-30.08	31.28	0.93	0.98	-0.012
BALA	-117.3939	34.4625	-16.83	13.21	0.93	0.97	-0.048
MAND	-118.4982	34.0905	-24.81	28.83	0.94	0.98	0.001
JT12	-115.6763	33.8736	-2.11	4.07	0.94	0.95	0.018
G255	-111.6969	38.9082	-0.75	0.23	0.94	1.11	-0.070
YAMM	-119.4752	34.7541	-28.39	20.08	0.94	1.11	-0.074
EXTR	-115.8617	33.1791	-14.89	14.64	0.94	1.00	0.024
ENIS	-122.1522	37.7544	-18.00	20.90	0.94	0.92	-0.011
PUAS	-115.3436	32.1616	-24.10	25.82	0.94	0.96	0.036
E250	-114.3371	39.1440	-4.40	-1.78	0.94	1.15	-0.083
MCDS	-118.5426	34.2021	-26.02	27.10	0.95	1.02	0.040
JEFF	-118.2031	34.0847	-26.51	24.70	0.95	0.91	-0.018
E235	-114.5167	39.0471	-3.35	0.63	0.95	1.15	-0.046
B586	-116.8213	33.4938	-25.02	24.70	0.95	0.95	-0.055
9090	-121.8939	41.5031	-2.87	4.64	0.95	1.01	0.022
05UH	-120.9965	36.4097	-11.15	9.89	0.96	1.08	0.053
PIER	-124.1206	40.4172	-8.63	24.39	0.96	1.12	-0.122
SWT4	-117.0068	32.6884	-28.04	27.59	0.96	1.00	0.011
ROCH	-116.6098	33.6110	-19.25	22.04	0.96	0.84	-0.033
TABA	-124.1937	40.6303	-0.36	13.23	0.96	0.98	-0.071
GS32	-117.8285	36.0165	11.67	8.78	0.96	1.03	0.052

PUG3	-122.8307	38.8193	-5.02	20.68	0.97	1.03	-0.004
6035	-117.4310	34.6349	-15.61	13.22	0.97	1.00	-0.054
G010	-116.4489	33.9150	-10.03	13.13	0.97	1.18	0.103
UTES	-111.8467	40.7683	-2.69	-1.42	0.97	0.90	0.146
JOTD	-121.6182	41.4899	-4.56	6.02	0.97	1.15	-0.086
BERN	-116.6700	33.4925	-22.32	22.00	0.97	1.08	0.066
MRS1	-121.9353	47.1419	4.75	3.72	0.98	1.16	-0.004
SWT2	-117.0080	32.6887	-28.09	27.22	0.98	1.01	0.009
PTDU	-118.8067	34.0016	-26.67	29.64	0.98	0.75	-0.113
MULH	-118.4769	34.1259	-28.59	27.23	0.98	1.11	0.039
ROPE	-111.9046	40.7126	-4.26	-1.66	0.98	1.08	-0.066
SHAS	-122.2032	41.3611	-5.32	2.59	0.98	1.14	-0.071
6039	-117.2974	34.7495	-16.30	11.95	0.98	1.07	-0.094
GLEN	-118.2826	34.1612	-26.79	23.29	0.98	1.06	0.003
BOLY	-120.1437	34.5188	-32.99	33.70	0.99	1.03	0.066
0048	-118.2554	34.5033	-25.66	20.93	0.99	0.86	-0.097
PSWB	-118.0533	34.1139	-25.04	24.39	0.99	1.21	-0.021
C342	-115.0358	32.2991	-7.02	7.51	0.99	0.99	-0.033
14SE	-115.7869	33.3835	-12.23	7.17	0.99	0.90	-0.029
MALG	-118.7019	34.0332	-32.72	17.76	1.00	1.10	-0.054
NIKE	-118.5129	34.1288	-25.21	27.82	1.00	0.97	0.055
0370	-118.4296	34.3522	-26.31	24.36	1.00	0.96	-0.069
STIM	-117.2418	34.5367	-12.54	11.29	1.01	1.21	-0.146
VWST	-116.1877	33.9264	4.64	3.51	1.01	0.84	-0.078
Z585	-121.5304	38.5711	-12.15	8.38	1.01	1.19	-0.060
WD91	-116.7120	33.7143	-18.31	17.91	1.01	1.16	-0.023
TJE1	-117.1050	32.5363	-27.25	28.69	1.02	1.03	0.005
QUIL	-124.5604	47.9346	12.76	6.89	1.02	1.35	-0.003
CUTT	-117.6048	34.3616	-16.95	19.65	1.02	1.03	0.003
0306	-120.6798	39.2934	-12.25	8.63	1.02	1.05	0.009
AMB1	-115.7425	34.5588	-2.36	0.07	1.02	1.08	0.043
TJE2	-117.1057	32.5364	-27.47	28.92	1.03	1.04	0.004
GS29	-117.8093	35.9816	5.05	11.89	1.03	1.11	0.090
R293	-116.8477	33.6303	-22.09	20.28	1.03	1.24	-0.029
IND0	-118.1847	36.7808	-8.01	6.99	1.03	0.61	-0.012
FINC	-121.4506	37.8055	-11.24	9.10	1.03	1.14	-0.029
JIM1	-117.4969	34.9771	-12.54	10.09	1.03	0.99	-0.034
MXCT	-115.7241	32.5711	-23.36	21.16	1.04	1.07	0.052
FIFT	-117.9086	33.7483	-27.51	28.93	1.04	1.07	-0.186
TJE3	-117.1057	32.5371	-27.50	28.84	1.04	1.05	0.006
LOST	-120.4563	35.9504	-11.26	17.16	1.04	1.07	0.024
LODO	-122.4916	39.3011	-10.82	6.12	1.05	1.17	-0.124
GILL	-120.4906	35.9435	-22.35	25.31	1.05	1.06	-0.001
01AE	-123.5590	38.7879	-24.60	33.91	1.05	1.27	-0.079
LOMB	-121.8444	37.1110	-20.33	25.21	1.06	1.01	-0.044

MON1	-121. 7710	36. 8456	-27. 48	32. 63	1. 06	1. 28	0. 066
U244	-122. 8057	38. 8012	-4. 55	25. 86	1. 06	1. 19	-0. 004
ASBS	-116. 4619	33. 6204	-17. 36	13. 82	1. 06	1. 25	-0. 063
ROH1	-124. 1188	40. 5589	-15. 07	13. 67	1. 07	1. 12	-0. 074
56_Z	-118. 2160	33. 8682	-28. 02	29. 81	1. 07	1. 18	-0. 131
F113	-118. 9234	34. 2776	-28. 23	27. 98	1. 07	0. 96	0. 032
COW4	-117. 0319	32. 8127	-27. 17	27. 48	1. 07	1. 08	-0. 025
SWT3	-117. 0077	32. 6882	-27. 80	27. 91	1. 07	1. 08	-0. 023
COW2	-117. 0319	32. 8131	-27. 49	27. 39	1. 07	1. 09	-0. 023
P244	-122. 8159	38. 8183	-7. 88	21. 15	1. 08	1. 17	0. 002
PF6_	-116. 4838	33. 5806	-19. 41	15. 36	1. 08	1. 22	-0. 051
K526	-117. 2031	34. 1078	-20. 32	23. 53	1. 08	1. 19	-0. 055
COW3	-117. 0321	32. 8127	-27. 39	27. 63	1. 08	1. 09	-0. 020
02NE	-115. 7873	33. 4271	-7. 34	7. 14	1. 08	1. 10	0. 017
BEFT	-116. 7095	33. 5491	-20. 83	22. 77	1. 08	1. 22	0. 103
CHRN	-118. 6702	34. 2788	-27. 61	26. 28	1. 08	1. 20	0. 010
COW1	-117. 0322	32. 8133	-27. 65	28. 07	1. 09	1. 10	-0. 023
CAOS	-121. 9351	37. 5130	-15. 58	17. 89	1. 09	1. 24	-0. 100
6052	-116. 8403	34. 5161	-15. 46	13. 75	1. 09	0. 99	-0. 080
WHAY	-116. 4719	33. 6836	-17. 22	20. 24	1. 09	1. 15	-0. 013
0001	-119. 2960	34. 2849	-33. 35	32. 71	1. 10	1. 24	0. 030
DELO	-118. 5111	34. 2576	-26. 83	24. 86	1. 10	1. 17	0. 020
JOES	-116. 5904	33. 6460	-16. 02	18. 71	1. 10	1. 17	0. 054
T243	-122. 7480	38. 7730	-6. 70	29. 05	1. 10	1. 18	0. 027
P102	-116. 4580	33. 6122	-10. 69	16. 10	1. 10	1. 11	0. 012
SD09	-116. 2332	33. 2569	-22. 62	23. 31	1. 11	1. 06	-0. 035
SABR	-116. 0262	33. 5915	-12. 33	10. 19	1. 11	1. 12	0. 005
FLES	-122. 2738	37. 8998	-16. 49	18. 11	1. 11	1. 32	-0. 020
FARY	-122. 9759	39. 4344	-13. 18	11. 03	1. 11	1. 20	0. 018
HAWW	-117. 4184	34. 9481	-10. 17	10. 97	1. 11	1. 01	-0. 035
654B	-116. 0231	33. 6044	-12. 13	9. 70	1. 12	1. 13	0. 008
VECA	-119. 4727	34. 4191	-29. 07	27. 59	1. 12	1. 16	0. 043
PUNT	-119. 0208	37. 6874	-14. 52	10. 08	1. 12	1. 23	-0. 031
MH40	-116. 0185	33. 6079	-10. 31	8. 61	1. 12	1. 13	0. 004
SPNG	-117. 5114	35. 5746	-7. 54	8. 67	1. 12	1. 13	0. 004
BNDY	-116. 4379	33. 5986	-16. 75	17. 34	1. 12	1. 25	-0. 028
MALO	-122. 2980	37. 9976	-16. 09	15. 99	1. 12	1. 34	0. 030
CHAS	-122. 9910	45. 5244	2. 81	5. 92	1. 13	1. 17	-0. 106
MAYO	-115. 2428	31. 9884	-24. 40	27. 30	1. 13	1. 17	0. 027
WARR	-112. 2387	41. 2548	-1. 55	-5. 29	1. 13	1. 25	-0. 106
KELL	-117. 0495	34. 1959	-17. 03	10. 88	1. 14	1. 27	-0. 042
WHEE	-119. 0143	35. 0106	-19. 79	12. 83	1. 14	1. 18	0. 020
6012	-118. 5340	34. 0343	-27. 96	18. 26	1. 14	1. 15	0. 015
SHAW	-117. 0018	33. 9421	-15. 44	18. 76	1. 14	1. 22	0. 017
E244	-122. 7648	38. 8046	-18. 28	2. 25	1. 15	1. 26	0. 045

L244	-122.7901	38.8120	-12.89	26.04	1.16	1.24	0.006
INA5	-116.5154	34.0040	-14.69	16.19	1.16	1.12	-0.010
BERD	-116.1750	33.8102	-10.56	6.63	1.16	0.97	0.010
PGN6	-121.5869	36.9211	-20.74	25.00	1.16	1.32	0.029
05SK	-120.6912	36.1779	-3.10	4.32	1.17	1.26	0.017
PIGG	-120.4526	35.9639	-9.57	16.00	1.17	1.20	0.011
V625	-122.7704	38.7574	-2.42	28.70	1.17	1.25	-0.053
GAYS	-116.3786	34.5550	-7.42	5.39	1.17	1.19	0.013
KNLL	-118.9761	37.6547	-8.49	7.86	1.18	1.31	-0.335
VENU	-116.7923	35.2481	-8.11	5.48	1.18	1.21	-0.017
7085	-116.8864	35.4244	-2.78	3.60	1.18	1.21	0.005
VAND	-120.6164	34.5561	-31.22	33.80	1.19	1.11	0.011
07CG	-118.4329	33.9282	-27.20	28.19	1.19	0.75	0.102
DASH	-117.0862	33.6357	-23.61	25.73	1.19	1.30	-0.124
G109	-116.6339	33.5567	-19.80	19.34	1.20	1.52	0.007
GRL1	-117.8505	35.4192	-9.02	9.93	1.20	1.21	0.003
DUNP	-116.2806	33.7504	-12.60	11.31	1.20	1.22	0.019
B38A	-115.3431	32.3534	-21.98	27.55	1.20	1.23	0.050
CHAF	-119.3310	34.3006	-29.30	27.11	1.20	1.15	0.018
STAB	-122.2506	37.8720	-14.11	18.74	1.20	1.33	0.181
ORCC	-122.6607	47.4462	4.08	3.11	1.21	1.50	-0.083
FAIL	-121.8126	39.3221	-10.17	7.40	1.21	1.26	-0.112
0003	-117.4563	33.7504	-21.76	35.57	1.22	1.24	-0.062
PERR	-121.7059	37.1838	-19.54	20.90	1.22	1.25	0.021
VAC5	-121.9581	38.3747	-6.57	24.00	1.22	1.21	0.023
0094	-118.7610	34.1464	-28.97	28.95	1.22	1.39	-0.033
ECHO	-116.8059	35.2995	-6.95	5.58	1.22	1.27	-0.020
1003	-120.5011	37.4936	-8.87	8.51	1.23	0.68	0.013
BGPT	-119.2233	38.2594	-9.99	3.80	1.23	1.37	-0.027
G235	-111.9411	38.9015	-1.25	-1.15	1.23	1.46	0.010
S625	-122.7534	38.7267	-7.29	20.49	1.23	1.39	-0.072
LOPE	-119.3542	41.9970	-2.55	2.03	1.24	0.77	-0.380
APPL	-116.9968	33.9331	-17.13	18.16	1.24	1.31	-0.015
CHUK	-116.2436	34.5708	-2.23	6.86	1.24	1.25	0.011
UNI2	-111.8860	40.5823	-2.31	2.89	1.24	1.18	0.063
XYZZ	-121.9533	37.8014	-17.99	0.93	1.25	1.41	-0.117
BURB	-118.3309	34.1479	-27.31	22.55	1.25	1.47	-0.059
0808	-115.9332	34.7278	-4.32	2.79	1.25	1.58	0.026
CSUS	-121.4233	38.5541	-15.19	9.45	1.26	1.55	-0.006
SCP6	-116.3450	34.4070	-2.18	7.34	1.26	1.31	0.004
VORO	-116.1598	33.6280	-13.20	13.34	1.27	1.25	0.077
GT35	-110.7550	43.7670	-1.22	-5.28	1.27	1.45	-0.112
POZO	-120.2987	35.3460	-24.52	30.52	1.27	1.07	-0.021
ORDS	-121.7721	36.5894	-29.90	38.95	1.28	1.28	0.046
HOB1	-212.5600	-42.8040	30.30	63.14	1.28	0.94	0.003

F011	-111.3263	44.4725	-1.02	-4.02	1.29	1.48	0.047
JAC6	-121.6233	38.1380	-34.69	8.43	1.29	1.51	-0.000
DSHO	-116.0432	33.3970	-14.19	11.64	1.29	1.45	-0.261
QU90	-124.3320	47.5402	14.90	12.58	1.31	1.82	-0.025
SINK	-121.7757	44.0232	0.16	-0.57	1.32	1.57	-0.016
GHAZ	-116.3262	34.5133	-2.50	12.28	1.32	1.33	0.005
G124	-116.5831	33.5652	-19.69	18.15	1.32	1.66	-0.019
LSES	-122.2113	37.8258	-19.78	20.44	1.32	1.45	-0.019
01T4	-123.6557	41.2405	0.58	9.91	1.32	1.53	-0.120
M625	-122.7750	38.6986	-10.63	19.72	1.33	1.47	-0.088
L587	-116.4108	33.6226	-17.52	16.03	1.33	1.64	0.017
A281	-119.4056	39.3497	-8.46	5.02	1.34	1.54	0.004
UCL1	-118.4426	34.0696	-25.17	29.87	1.34	1.21	-0.035
GGR1	-121.9238	36.9823	-28.89	31.23	1.34	1.65	-0.090
6056	-116.6471	34.3696	-11.10	13.80	1.35	1.40	-0.160
G123	-116.5873	33.5672	-19.38	17.91	1.35	1.70	-0.005
IPE0	-114.8482	32.5041	-2.65	2.41	1.36	1.36	0.051
FLI2	-122.2739	37.8997	-18.24	20.24	1.36	1.88	-0.157
G134	-116.5212	33.5701	-18.21	20.39	1.37	1.77	-0.037
TREM	-112.1840	41.7114	-0.06	-1.31	1.37	1.63	-0.083
KNLX	-117.2114	35.4767	-5.95	7.68	1.37	1.38	0.005
F179	-120.1910	35.7252	-14.66	18.48	1.37	1.11	0.013
ORCT	-122.6599	47.4469	4.84	2.80	1.39	1.66	-0.083
02HH	-122.3787	40.5881	-10.81	7.23	1.40	1.56	0.010
RIOV	-121.6943	38.1492	-9.43	5.70	1.40	1.69	-0.066
FLAN	-118.6458	35.1393	-13.06	13.56	1.40	1.41	-0.009
STAA	-122.2496	37.8712	-7.19	17.91	1.40	1.39	0.109
BUL1	-121.5755	41.5534	-5.89	5.67	1.41	1.50	-0.050
BMT1	-116.2722	34.5865	-3.00	7.47	1.41	1.43	0.034
0515	-119.4720	34.8352	-23.36	21.68	1.41	1.79	0.143
0803	-116.4146	35.0718	-7.19	4.40	1.42	1.61	0.083
WELK	-123.5826	43.6438	0.37	7.05	1.43	1.84	-0.204
BMT2	-116.2732	34.5570	-5.80	7.96	1.43	1.46	0.016
MOSQ	-122.0236	44.0646	-1.77	6.39	1.44	1.86	-0.012
SJOA	-117.8164	33.6023	-28.71	30.78	1.44	1.39	-0.037
VABM	-111.8100	40.7301	-2.09	-0.79	1.44	1.45	0.087
YUMA	-114.2031	32.9391	-0.61	1.31	1.44	0.94	0.028
WES2	-71.4933	42.6133	-2.80	-2.34	1.44	1.15	0.023
FARO	-123.3389	42.4235	-1.71	7.94	1.46	1.68	-0.107
LASA	-115.6273	32.4654	-25.07	24.46	1.47	1.52	0.086
02RH	-122.3970	41.4249	-7.19	7.89	1.47	1.74	-0.023
FLE2	-122.2728	37.9005	-14.94	18.18	1.48	1.69	0.101
SD32	-116.9359	33.0410	-26.95	26.61	1.48	1.49	-0.002
G128	-116.5583	33.5621	-16.84	18.54	1.48	1.84	-0.014
TCH5	-118.5377	34.0630	-29.31	25.89	1.49	2.24	0.013

H623	-120.3459	35.6074	-25.00	29.63	1.53	1.31	-0.023
CALI	-117.6509	34.0555	-23.71	17.51	1.54	1.38	-0.384
SD91	-116.2331	33.2570	-21.44	20.15	1.54	1.32	-0.257
ITER	-117.2299	34.6296	-8.64	11.91	1.56	1.38	-0.010
B587	-116.5158	33.5711	-18.76	17.43	1.57	2.07	0.009
0041	-115.5698	32.8982	-12.15	16.47	1.57	1.83	0.030
KNGP	-124.1243	40.1568	-22.93	33.54	1.58	1.83	-0.141
OATT	-118.6012	34.3301	-27.10	20.87	1.59	1.52	0.060
PF5C	-116.4771	33.6029	-16.22	16.54	1.60	2.03	-0.017
C101	-116.1545	33.5457	-11.37	14.48	1.60	1.61	0.018
PUET	-116.1684	34.3136	-1.43	2.57	1.61	1.65	0.034
CHPI	-118.4576	35.1471	-12.66	13.21	1.61	1.61	0.004
VIII	-111.8531	40.4630	1.12	3.25	1.62	1.51	0.116
KILN	-118.4821	35.0996	-12.19	13.73	1.62	1.62	0.005
6050	-116.3341	34.2661	-5.03	7.14	1.62	1.52	-0.102
LUC2	-116.8820	34.4391	-15.50	14.10	1.63	1.70	-0.022
LSIS	-122.2096	37.8267	-18.08	17.46	1.63	1.79	-0.067
AMER	-121.8659	37.2877	-21.71	22.38	1.63	1.72	-0.041
AMBO	-115.7425	34.5586	-3.66	1.42	1.64	1.43	0.033
G125	-116.5792	33.5639	-20.05	18.92	1.65	1.85	-0.085
LNCH	-118.5095	34.3009	-28.54	25.41	1.67	1.62	0.070
S122	-114.8050	32.8583	-1.33	-1.76	1.70	2.01	-0.033
USC1	-118.2862	34.0186	-25.75	30.89	1.70	1.80	-0.145
FIR1	-121.9376	37.0469	-22.52	31.08	1.71	1.98	0.128
05QJ	-120.8777	35.9485	-39.88	29.29	1.71	1.81	-0.006
B121	-120.3359	35.6887	-22.80	28.27	1.71	1.53	-0.021
HART	-332.2922	-25.8871	14.85	-12.97	1.72	1.04	-0.097
U127	-111.7803	41.7669	-2.71	-0.52	1.73	1.81	-0.033
B244	-122.7634	38.7926	-6.03	9.07	1.77	2.07	0.019
SCP1	-116.0062	34.2669	-0.80	3.71	1.78	1.78	0.032
0809	-115.3270	34.8063	-1.77	1.33	1.81	1.85	-0.056
0507	-121.0292	35.5122	-25.76	43.08	1.83	1.66	0.027
BELA	-117.4798	33.5232	-28.43	28.34	1.86	2.01	-0.017
ONIO	-123.2306	42.6917	0.89	5.77	1.90	2.12	-0.059
PAJA	-121.7535	36.8790	-25.29	32.54	1.90	2.02	-0.112
Z370	-118.6517	34.5445	-22.63	19.39	1.91	1.72	-0.029
P012	-110.0022	44.4897	-2.28	-2.65	1.92	2.60	-0.128
BUT1	-118.3074	34.7975	-26.43	20.82	1.93	1.48	0.003
N469	-124.1190	48.1979	7.92	7.17	1.97	2.66	-0.276
PSAR	-116.4890	33.8394	-10.58	11.71	2.00	1.86	-0.004
S302	-117.2491	33.3554	-26.76	26.75	2.00	2.00	0.002
CARP	-120.4308	35.8883	-17.91	29.09	2.03	2.21	-0.049
ML02	-121.5920	41.5857	-4.83	2.42	2.04	2.66	0.173
MAUM	-116.4584	34.4190	-8.08	8.79	2.05	1.85	-0.076
CD15	-115.1234	32.4124	-23.23	14.35	2.06	1.79	-0.043

LITE	-115.5840	34.0880	-3.93	3.14	2.07	2.11	-0.007
SVAL	-115.7882	33.3899	-11.56	9.16	2.09	1.76	-0.084
CAHT	-123.5795	39.6865	-25.32	20.15	2.15	2.30	-0.048
PRKR	-118.2188	34.4598	-24.99	21.77	2.18	2.22	-0.029
SATI	-118.4264	34.2092	-27.64	24.15	2.19	2.49	0.058
KOKO	-159.6649	22.1267	-39.65	53.70	2.29	1.64	0.055
BREA	-117.8914	33.9553	-23.73	26.25	2.34	1.56	-0.098
PVEP	-118.4042	33.7433	-30.89	31.43	2.37	2.29	0.001
USUD	-221.6380	36.1331	-5.33	-12.94	2.39	1.53	0.031
TOWN	-213.1859	-19.2598	46.68	62.89	2.40	1.36	0.102
CHIC	-118.0497	33.7104	-30.08	31.44	2.41	1.92	-0.088
FLOS	-122.2738	37.9007	-12.58	14.25	2.42	2.58	0.144
ENES	-122.1511	37.7548	-19.95	21.87	2.43	2.19	-0.106
0149	-118.0914	34.1614	-24.36	25.35	2.44	2.59	-0.039
0184	-116.3181	33.8266	-11.83	15.73	2.50	2.54	0.000